
Henry B. Stoff
Jury with Ben. Dick
Oak Harbor Wash.

Wife H.W. Christ

Crabbe best after
Drummers

little
[regular]
#1 white
disc's

blk Bry
patches
#2

#3 yellow
[orange bry]

#4 thicker
wht encrust.

o o o
o o
#5 regular
usual white
discs measured
like #1 above.

Mr. Simpler Anna Hunge
Cordova, Alaska crabs at

Crabs in Prince William
Sound in July

Bay of Waterfalls

From Shetter
Vic
writing station

Kanaga (or Tanaga?) Id.

western Aleutians

Mile C. S. In Bar.

2 male from
Shum Bay
60 fms

Dec. 1 - 1940

~~Tot~~ Kalarock
early spring tall
large mas ~~summer~~
me.

- ① Continue to measure and tag/set out test blocks
- ~~②~~
- ③ Time moulting + increase of size noted.
- ④ Any enemies of crabs in soft condition
- ⑤ Duration of moult + time it takes for crabs to get hard
- ⑥ ~~Additional~~ ~~smaller~~ test blocks
- ⑦ Continue studies at Alitab

If canner is not later
any experiments could be
carried out on shore at
Cannery at Sazy Bay
where Nelson got his best haul.

Steam cocher etc available
could run in just ahead
of day in the drift at
Olga Bay; (if experiments are
to be carried forward).

① Continue ^{field work} observations on King
crabs at Alaska, movements
abundance, ^{and} ^{eggs} ^{rate of} ^{development} ⁱⁿ ^{young} ^{included}
life history, tagging
measuring crabs. * (perhaps up
high in boat
could be
stationed by)

② Develop better mode of tagging
if present one should prove un-
satisfactory

③ Study of baits for traps.
(wood blocks soaked in fish oil
a reservoir with capillary tube
releasing droplets of oil??)

④ ? * Technological observation
might be conducted at
Alaskan cannery?

⑤ Out and observe test block.
glass or iron plate, a capillary
tube

⑥ Good Baits

Continue measurement of crabs
as many as practicable always

Continue Tagging, modify it if
can be done better, a permanent
tag would be well worth while.

Continue field party at Alitok
same or new personnel; close
watch should be kept a month
stages, durations, effects of
moulting & not moulting;

Tag crabs about to moult & see
how ^{some} far they pass through moult
with tag affixed.

hatch eggs; hatch out ^{some}
~~explore~~ possibilities of hatching

~~Put out~~ Test blocks to get rate of growth
of organisms infesting crabs

Keep up good habits studying
Echiniscus with hist. blocks of
wood soaked (in preparation) with
fish oil, Cam essence, in
bottle that will diffuse it right
in, a other wise; Contain the
water pressure will squeeze it out.

Drafting net:

- ① should pay 80-90 for slightly used net, & pay out for me for one used wh.
- ② would have been in pretty pickle if Drafter had not bought his net.

Ask Helen for data
& log book of Jan 1838
amuse

Look through all
these sheets

Traction net

Asks for him every body
Cann't charter be cancelled as
basis of gross misrepresentation.

regards capacity of carrying cable
w/ knowledge of arabs
no knowledge of carrying
misleading statements as to abundance of
crabs

loaded above
in depth should
be 150 fathoms
depth 200 fathoms

fuel consumption way off; had to
shut off lights in last half of trip
no lights of any sort when at anchor
wrong view of you or at least
wrong

Tomas Dobson

All Belle
Stevens

~~Wxy over. One haul was made
in about 95 fathoms off Castle
Rock.~~

White Bat about Protect
bait by wire

July board at Zimmerman's

End Pat
Side Table 1941
Calendar 1941
Cheese Cloth
Fish Hooks

Pat mining / Put up
Sept. 28 / step or rack
a portage

Port hole at
Polgoi
Oct. 31 down
dug in
getty washed
in way
Back.

Bolt for if not used would
be available for next year.

Banabz
red dried red
red completion
at Petro.

Superstition Friday the 13th

Friday the 13th today.

Things to report Kellogg - Mammals
Schultz - Fish
Foshag - Minerals

Write down what
get to hand.

Herring, U.S. Marshall at Kordia's
reports, & has pictures of hairy
mammal with beak like bird & tongue
that fits into a socket. (Beaked whale?)
Also has photo of odd fish.

If we want sea-otter skeleton, write
Alex Stokes, things like that frequently
get washed up on beach.

Brittel colored pictures of minerals
OCT. 26. Hunted, & where obtainable. ^{Technical info. wanted, put on mail list}
What is green matrix of large spec.
Lapidary book & methods; put on mineral mail list.
① Large green, ② med ashy & quartz
found on Unga not from mine
first two ① + ② picked up on beach next to
cannery.

Brittel is going to take vacation with
around Helum lagoon & ask if
we would care for walrus skeleton?
Write him about it.
{ Carl = bones on museum. Some can't left.
also walrus skeleton.

Commercial fish:

Oct. 11

Good day
Paul flounder

Right now East supplies West with

filleted fish.

Why not develop

Alaska flounder.

Boat. ^{+ fish grounds} what are an

fun for Seattle as the Alaska catches

Person

Vessels

"Jandelegö"

Built in 1898, former night haul
113 ft. ~~long~~ ^{ender}, converted for cannery purposes
29 ft. beam. ^{in 1938. 170 h.p.}

"Dorothy" Built in 1914. ^{converted} Oiler trawler, formerly
92.8 ft. long. ~~beam~~ halibut schooner.
draft 10.1 feet.

Loose Kneads

$\frac{1}{3}$ Cup Shortening
4. tea Spoon Baking powder
 $\frac{1}{2}$ " " Salt
 $\frac{1}{4}$ " " Sugar
1 " " Vanilla
1 $\frac{1}{8}$ Cup Sugar
5 Eggs Well Beaten
1 $\frac{1}{4}$ Cup Milk
1 $\frac{1}{2}$ qt. Flour
1 $\frac{1}{2}$ Cup Mashed potatoes

4. Dry Loaf Kneads

Since 1930 . . .

. . . We of Clark's "Better" Restaurants have constantly endeavored to give you the very best in food at lowest possible prices. Every dollar spent in our restaurants helps Seattle. One hundred members of the culinary union are employed, receiving union wages and working five days a week . . . over thirty cents out of each dollar we receive is paid to labor.

Our story is briefly told . . . the best in service to Seattle and to you is our aim.

W. T. Clark



... Still Modernizing

Not satisfied with bringing you the New TOP-NOTCH, Clark's "Better" Restaurants will soon remodel the popular Salad Bowl, at 1325 Fifth Avenue, making it ultra-modern in design, and fully up to the latest Clark standards.

CLARK'S New TOP-NOTCH



*Serving
Seattle . . .*

CLARK'S

"Better" Restaurants

. . . Each a separate business, incorporated and operated as a single unit, but with the advantage of affiliation with the other Clark restaurants as to management.

4 Famous Restaurants:

CLARK'S New TOP-NOTCH, Inc.

E. 45TH AND 12TH N. E.

In the heart of the busy University District—Where "U" meets YOU . . . Ultra-Modern—Seattle's newest and finest restaurant . . . The "top-notch" in food service at all hours of the day and night . . . Ample parking space for your car.

CLARK'S Round-the-Clock, Inc.

OLIVE WAY AT TERRY

The ultra-modern companion of the Top-Notch . . . Has established itself as one of Seattle's most popular restaurants, with national recognition . . . The ski room has become famous . . . Convenient for you whenever in downtown Seattle . . . Open "round-the-clock."

CLARK'S Coffee Tavern, Inc.

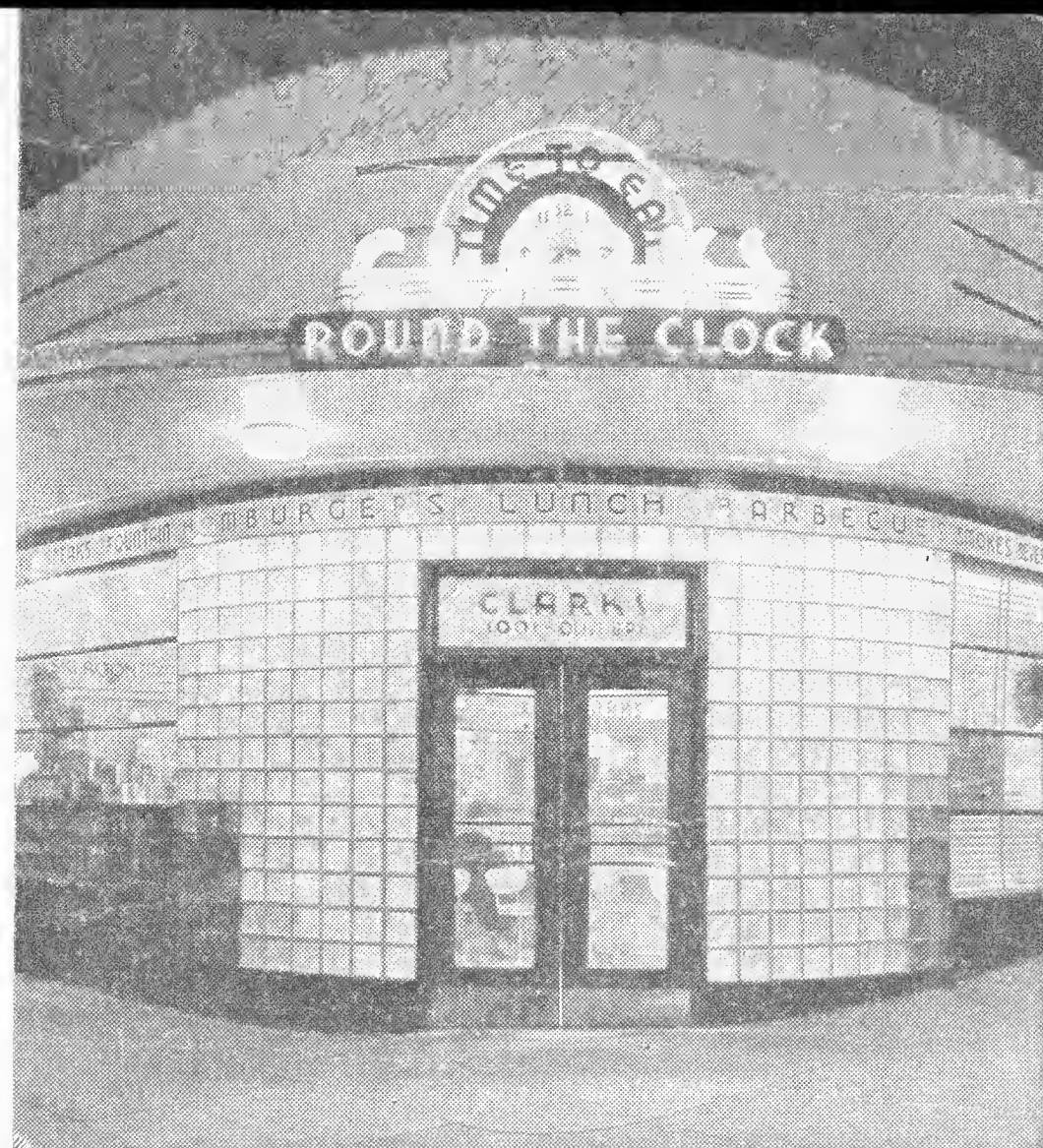
MEDICAL & DENTAL BUILDING

In the downtown shopping district, handy for business and professional people as well . . . Located next to Frederick & Nelson . . . Famous for complete 50c dinners . . . Boasts an unusual, ultra-modern soda grill.

CLARK'S Salad Bowl, Inc.

1325 FIFTH AVENUE

In the Metropolitan area, convenient for theatre-goers . . . Nationally known for excellent salads.



*. . . each
featuring*

the well known Clark quality food, with quick service, in spick and span surroundings . . . offering a variety of complete breakfasts, lunches and dinners, at reasonable prices . . . serving such specialties as the popular, U. S. trade-marked "Chickenburger" . . . famous Shore Dinners, as well.

*When the Times whistle blows,
. . . Come to CLARK'S*

At the request of . . . Harrison (title). . . I am forwarding to you a statement in duplicate regarding my knowledge of an eye injury to Mr. Ed Verburg who was cook on the vessel Tondeley while . . .

In addition to my duties as . . . technologist. . . I administered first aid wherever needed. . . . It is my belief that Mr. Verburg was injured in line of duty and that the explosion of the stove is the direct cause. ~~xxxx~~ All the men were required to have physical examinations before the trip. I recall from Mr. Verburg's medical form that there was no previous eye injury.

The injury came to my attention immediately after the explosion. I washed the eye with dilute boric acid and applied burn ointment to the face. Treatment of the eye continued for about a week, when the burning sensation seemed to cease. Captain Nelson was asked to move the vessel into port where a doctor could be reached after Mr. Verburg complained that he was losing the sight of his eye. He refused to do so immediately. On the insistence of Dr. Waldo L. Schmitt (title). . . the Captain, on November 11, 1940, ~~xxxxxxxxxxxx~~ gave permission for Mr. Verburg to go on the Dorothy to Kodiak. Dr. Schmitt and I accompanied him. There is no Public Health Service doctor in Kodiak, so Mr. Verburg was taken to a private physician. He treated the eye with ointment and suggested that Mr. Verburg go to an eye specialist immediately upon his return to Seattle. Treatments began in Seattle December 12, 1940.

Dr. Jones Kodiak.
Nov. 11 went to Kodiak.
Dec. 12 went to marine
hospital in Seattle
Sept. 12 Sorenson

It is my belief that Mr. Verburg was injured in line of duty by faulty equipment on board the Tondeleyo, and that treatment was delayed by negligence on the part of the master of the vessel.

A. E. GREEN

ONLY FURRIER IN THE UNITED STATES
DEVOTING HIS ENTIRE TIME TO
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NO SKINS OR SCARFS FOR SALE JUST LABOR

Specializing in

MAKING SCARFS

*Have made scarfs for SILVER FOX BREEDERS in Every
State Silver Foxes are Bred—Also Alaska*

HAVE MADE SCARFS FOR THE BEST
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ALASKA MINKERY, Petersburg, Alask

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S. T. JOHNSON, Milton, Mass.

ENGEMAR PETERSON, Vergas, Minn.

C. E. SMITH, Natural Bridge, N. Y.

SKINNER'S MINK FARM, W.Chester,Ia.

A. E. GREEN

FURRIER FOR BREEDERS & TAXIDERMISTS

1033 — 81st Street

Brooklyn, N. Y.

RECOMMENDATION

Am pleased to advise that the Silver Fox Scarfs you have made up for me were handled in a very workman-like manner. Have never before seen any scarfs with such natural heads as those made by your company.

EDWIN BREITWIESER, Castle Rock, Col.

Your workmanship is fine, will try and get my fellow ranchers to send their work to you. Some have seen and approved of your work, your new idea of ear supports is splendid.

J. E. DONAT, Wallingford, Conn.

Received the Fox Scarfs, well pleased with the work, have not seen better, sending eight Minks to make up.

ENGEMAN PETERSON, Vergas, Minn.

You have made up a number of pelts for us and it seems seems that each time they are finer and better looking in every way.

WATCHUNG FOX RANCH, Morristown, N. J.

In regards the Minks you made up for me they were first class in every respect, if I have any more made up you surely get the job.

ALASKA MINKERIES, Petersburg, Alaska.

Am very much pleased with your tanning and making up of Silver Fox Pelts.

My customers highly recommend your work.

JOHN LONG, West Stockholm, N. Y.

We find that your work on the making of Silver and Red Fox chokers far superior to any we have had done before, and know that we do not need to hesitate to send you a valuable fur as your work is first class in every respect.

R. W. Hutchinson, White River, N. Dak.

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SELLING RAW PELTS

TO FRIENDS, VISITORS AND NEIGHBORS.

I will suggest that if you deliver the raw pelt to them, give them my name and address, to have it made up, or you can ship direct to me to ship to them when finished. Will ship C. O. D. for cost of making, if necessary.

The reason is, I have received so many scarfs back from breeders to make over that their customers have had made up elsewhere and not satisfied with, moreso the past season.

This will save the extra expense of remaking and dissatisfaction.

WORN SILVER FOX SCARFS

With worn out Noses, Underjaws, Ears, Paws, Belly or Tails on aged foxes, can be replaced. Worn side repaired without making shorter or narrower, giving the scarf a healthy rejuvenated appearance.

RUBBED OR TORN PELTS

If you have any pelts that are slightly torn or rubbed, I can make a perfect scarf from it, and only you will know it was made from an imperfect skin, thereby getting the full value of a perfect pelt instead of taking a heavy loss if sent to the sales.

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FREE!

A large display poster of the enclosed sketch of scarfs size 17 x 22 will be a help to take orders for scarfs. When shown the three different styles it can be worn, will make it very easy to make a sale.

As each scarf is finished complete, you can detach and sell as 2 separate scarfs.

One of these display posters will be mailed you without cost on receipt of first pelt sent in by you to be made up.

It will be mailed not folded.

TO THE MEMBERS OF:

American National Fox Breeders Ass'n.

If at any time you sell a pelt to a neighbor or visitor, or want a Scarf made up as a gift to a member of your family, I will give you the same service, labor and quality of trimmings as a breeder receives who has a NUMBER made at one time.

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THE NEWS

TWO SKIN SCARFS

All 2 Skin Scarfs made to be worn in three styles, and finished so as to be worn or sold as a single scarf, no sewing. This is a benefit to help you make a sale.

No. 1. Long Effect in Front

Ring closed at head only.

Ring at rump lower inside paws, close to hold scarf together in front.

No. 2. Cape Effect

Rings closed at head and front paws.

Rings at rump lower inside paws can close to hold scarf together in front.

Rings at head can be left open to give a wider effect in back.

No. 3. Tails in Back

Rings closed at rump lower inside paws.

Rings in front paws open.

Rings in head can close to hold scarf together in front.

WARNING

Do not hold your hands across top of fur while wearing, will then wear very quickly.

Hold hand in ribbon on belly side.

A. E. GREEN

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Brooklyn, N. Y.

Sec. 562, P. L. & R.

A. E. GREEN

Return Postage Guaranteed

1033 - 81st STREET, BROOKLYN, N. Y.



Furrier For

TAXIDERMISTS

and

BREEDERS

Specializing in

SCARFS



INEXPENSIVE SKINS NEED THE BEST
WORKMANSHIP . . . COSTLIER PELTS
DESERVE IT!

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PRICE LIST

My work is custom made, I see every pelt received and every scarf shipped out, I personally make all heads and oversee the blocking of every scarf, that the narrow neck is blocked out, so that when the scarf is finished, it does not look like pieces have been cut out at neck, but the neck is almost straight with body. Each and every scarf is made to look as good as the best workmanship or better. As for trimmings only the best are used, LIGHT-WEIGHT FLEXIBLE RUBBER SKULLS, IMPORTED VEINED EYES AND HAND MADE HEAD SPRINGS AND SAFETY RING.

No pony or cat used for underjaws, but Silver, Red, Cross or Blue underjaws only.

No furrier catering to the finest retail trade use any finer trimming than I. They cannot be had.

Be prepared to make the extra profit by making up your pelts and selling made-up scarfs.

Fox breeders send for cape designs.

Mink breeders send for sketches of 10 designs.

Same attention given to one scarf as to a dozen.

| | |
|--------------------------------------|---------|
| <i>Silver, Blue, Cross Fox</i> | \$ 9.00 |
| <i>Red Fox</i> | 8.00 |
| <i>Gray</i> | 7.00 |
| <i>Raccoon</i> | 7.50 |
| <i>Mink (2 skins)</i> | 8.00 |
| <i>Fitch (2 skins)</i> | 7.50 |

All above prices include tanning and finishing the scarf complete.

A 5% discount on lots of 10 or more Scarfs made at one time.

All goods returned to you prepaid and insured.

Advise value to insure furs when returning.

All scarfs shipped within 14 days from time received.

A. E. GREEN

1033 — 81st Street

Brooklyn, N. Y.

HOW YOU CAN MAKE MORE MONEY

By selling direct to the consumer or wearer, you will make the profit of the skin dealer also the profit of the manufacturer and the retailer.

This can be yours by having your pelts made into scarfs. Can't you use the extra money.

Scarfs sold to your ranch visitors and local people will give you extra profit.

Every woman is proud to say she bought her silver fox or other fur from the man who raised them, and made with expert workmanship.

Some of the features of my work: Wide neck line, long head effect, under jaw made of fox fur.

My prices are as low as possible consistent with good work.

Rubber skulls which make a flexible head, handmade silk crochet head spring and safety ring.

TIPS

A poor tip on a silver reduce the value, poor tips can be replaced with one 3 or 4 inch at the cost of 80c. which will greatly improve the scarf.

CAPE S

The Cape has many uses. It can be worn with fur or cloth coat, and without a coat in Spring and on cool evenings in Summer.

Full silvers are best for capes.

Muff made from one pelt, half silver will make-up good as the black part is at back of muff.

Cost \$10.00 from raw pelts.

A. E. GREEN

FURRIER FOR BREEDERS & TAXIDERMISTS

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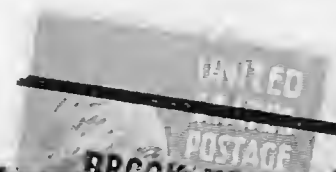
A POOR HEAD SPOILS A GOOD PELT

Sec. 562, P. L. & R.

Leslie Melvin

Perryville

Alaska



Have done work for SILVER FOX BREEDERS in every State Silvers are bred - also Alaska

ONLY FURRIER IN
THE U. S. DEVOTING
HIS ENTIRE TIME
TO BREEDERS
TAXIDERMISTS
IN SEASON

•
NO SKINS OR
SCARFS FOR SALE
JUST LABOR

A. E. GRIEN

FURRIERS FOR BREEDERS

1033 - 81st STREET

BROOKLYN, N. Y.

Telephone Shore Road 5-5380

FROM APRIL 15 to NOV. 15
WILL SPECIALIZE
IN REPLACING
AND REPAIRING
ALL WORN PARTS
IN SILVER FOX SCARFS

PRICE LIST

| | | | | |
|-----|--------|---------|---|-------|
| 200 | JACKET | 20 inch | 3 | SKINS |
| 201 | " | 25 " | 4 | " |
| 202 | " | 32 " | 5 | " |
| 203 | COAT | 36 " | 6 | " |
| 204 | STOLL | | 3 | " |
| 205 | " | | 3 | " |
| 206 | MUFF | | 1 | " |

The above can be made from all kinds of foxes. But must be from large skins for coats or jackets, otherwise will need 1 or 2 skins extra.

Full silvers are preferable as they make a better looking garment.

Stolls and muffs will be made as large as fur will allow.

Cost of making, tanning and lining \$15.00 per skin used.

Lining used will be pure silk, pure dye satin crepe.

Muffs \$10.00.

No. 201 is made by making each skin look like two. Any coat or jacket can be made this way.

No. 203 is made by making four strips from each skin. Any coat or jacket can be made this way.

When ordering let us know which style you prefer.

INSTRUCTIONS

In taking orders for coats or jackets, let us know size of coat or dress party wears, and length of sleeve, taking measure from sleeve under arm to wrist.

We then will make up a canvas model and mail to you to try on.

The fronts are to meet, and if not you are to let us know how much space apart there is, or how much they overlap. Also if sleeve length is correct. If not, how much longer or shorter is needed.

Return canvas model with instructions.

NO FUR IS USED FOR UNDERSLEEVE OR ON BODY BY ARMHOLE UNDERSLEEVE. SATIN LINING WILL BE USED. THIS IS DONE TO PREVENT THE RUBBING OF FUR BY THE MOVING ARMS.

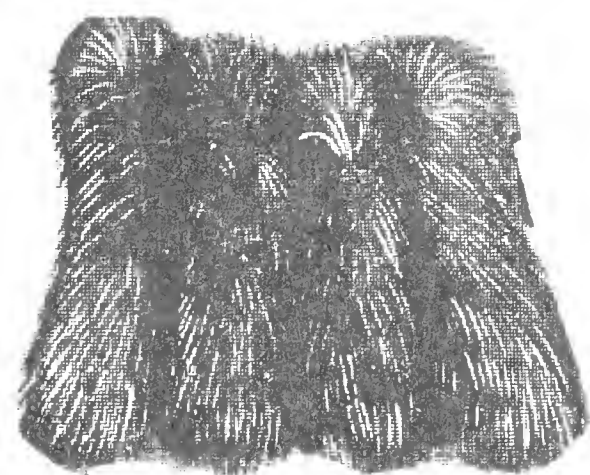
If you can use a few of these Fox sketches to send to your prospective customers we will mail same to you without cost. How many do you wish?

With each garment made we will send a printed slip on the care of Silver Fox garments to give to each of your customers.

Red Fox - \$8.00 per skin (scarf)



204—3 SKINS



206—1 SKIN



203—6 SKINS



205—3 SKINS



201—4 SKINS



200—3 SKINS

SILVER FOXES
WORN
OR
-RUBBED-
REPAIRED
AND
RESILVERED
SCARFS
CAPES
JACKETS
COATS
TRIMMINGS
CLOTH COATS

A. E. GREEN

1033 — 81st STREET

BROOKLYN, N. Y.

BREEDERS & TAXIDERMISTS

ALASKA CRAB INVESTIGATION

Mr. Wallace, who returned to the Seattle laboratory in June, following termination of the charter on the vessel "Champion," continued his work of converting the crab measurements to metric units and made various tabulations of the data at hand, giving attention to the size composition of the catches in the various areas fished according to types of gear. Tabulations were begun, also, on the sex distribution in different areas and at different times and relative to the condition of the catches with respect to molting.

SEATTLE TECHNOLOGICAL LABORATORY Period - July 16 through August 15, 1941

The vessels "Dorothy" and "Locks" continued operations in Bering Sea. The "Dorothy" worked in the vicinity of the Pribilof Islands and then made an exploratory trip from the Pribilofs to St. Matthew Island, then to St. Lawrence Island, returning to Dutch Harbor for fuel and supplies by way of Nunivak Island.

During the month the "Dorothy" covered over 1,200 miles, made approximately 42 drags, and caught 700 crabs.

During the month the vessel "Locks" carried on extensive tangle net fishing off the Aleutian Peninsula between Amak Island and Port Moller in an attempt to determine the extent of the crab population in this general area and its movement off shore. The "Locks" operations, however, were curtailed considerably on account of bad weather and her small size and she was required to spend some time in Dutch Harbor hanging floats to new tangle gear forwarded from here during the month.

The "Locks" set 46 shackles, took in 38 shackles for a little over 1,400 crabs.

Mr. Harris, formerly librarian in the Frozen Pack Laboratory, United States Department of Agriculture, was assigned to the W.P.A. project at the Seattle Technological Laboratory to reorganize our library and card index files. During the month Mr. Harris spent the greater part of the time familiarizing himself with the literature and in preparation of a master key for the library.

ALASKA CRAB INVESTIGATION

Having completed preparation for return to fishing operations for the extension period, the vessels "Dorothy" and "Locks" left Kodiak, Alaska, on June 19 and began the return trip toward Bering Sea, arriving at Dutch Harbor on July 2.

Between Kodiak and Dutch Harbor, the "Locks" made nine drags, catching a total of 816 crabs, including about 1600 in one drag in Canoe Bay. Of these approximately 300 were of large canning size. In eight shackles of tangle net set during this period, but allowed to soak only a limited time, 187 crabs were caught.

In the same period the "Dorothy" made ten drags and caught a total of 118 crabs. No tangle net was set.

In Canoe Bay the "Locks" recaptured one of the crabs tagged by Dr. Schmitt last fall, and another crab tagged by the "Dorothy" earlier during the second expedition.

The two vessels spent about a week in Dutch Harbor, taking on supplies which had been sent up on a Navy transport, and in making repairs to the vessels and gear. They were further delayed by illness which required hospitalization of the engineer of the "Dorothy". Leaving Dutch Harbor on July 8, the "Locks" proceeded to the vicinity of Amak Island, and the "Dorothy"

toward Port Heiden, where she will undertake exploratory work in a triangular area from Port Heiden to Nunivak Island to St. Lawrence Island, and then back down toward the Pribilofs. The bad weather hindered fishing operations considerably.

Between the period July 8 to July 12 the "Locks" made four drags, with negligible results. Eight shackles of tangle net were set. The "Dorothy" made four drags on July 10, catching 102 crabs. The remainder of the period she was either stormbound or running.

On July 14 one of the vessels relocated some tangle net which had been lost late in May or early in June during the previous work in Bering Sea. When the net was hauled in there were 150 crabs in it, all of them alive.

A 16 mm. motion picture camera was purchased for the expedition and, with a supply of Kodachrome film, was picked up by the vessels at Dutch Harbor. It is anticipated that during the extension period we will be able to obtain a moving picture account of the activities of the expedition.

| No. crab | Moult interval days | Carapace | | | | Thoracic sternites | Third leg. | | Stage letter |
|----------|---------------------|--------------|--------------|------------------|-------------------|--------------------|------------------|--|--------------|
| | | Gastrie area | Cardiac area | ant. branch area | post. branch area | | third | | |
| | | | | | | | | | |

rearing

under
 dorsal
 ventral
 gastric
 area
 branch
 area
 post

| No. | Moult interval days | Carapace | | | | Thoracic sternites | Third leg | | | | Stage letter |
|-----|---------------------|--------------|--------------|------------------|-------------------|--------------------|-----------|---------|-------|-------|--------------|
| | | Gastrie area | Cardiac area | Ant. branch area | Post. branch area | | dact. | propod. | Carp. | merus | |
| | | | | | | | | | | | |

cancellous
 area
 branch
 area
 post

some sort of
pressure gauge
 have calipers that
 stop after center pressure
 is exerted
or will always be
the same
 have not had time
 to look for them

| | | | | |
|-------|-------|-------|-------|--|
| dact. | prop. | Carp. | merus | |
| | | | | |
| | | | | |
| | | | | |

pipheous, carapace
 Stage letter
 A B C etc

Crabs of Nov-5-6, 1960 of Olq Bay (that were dead or died) measured + sexed for population ratio.

| no | sex | width of carapace | no. | sex | width of carapace |
|----|------|-------------------|-----|------|-------------------|
| 43 | ♀ | 4.294 | 64 | ♀ ov | 4.877 |
| 44 | ♂ | 4.661 | 65 | ♀ | 4.141 |
| 45 | ♂ | 4.327 | 66 | ♀ ov | 4.781 |
| 46 | ♂ | 4.729 | 67 | ♀ ov | 4.961 |
| 47 | ♂ | 5.243 | 68 | ♂ | 4.144 |
| 48 | ♂ | 4.544 | 69 | ♂ | 4.730 |
| 49 | ♂ | 5.310 | 70 | ♀ ov | 4.330 |
| 50 | ♂ | 5.115 | 71 | ♂ | 4.760 |
| 51 | ♂ | 5.092 | 72 | ♀ | 5.044 |
| 52 | ♂ | 5.310 | 73 | ♂ | 5.309 |
| 53 | ♀ | 4.464 | 74 | ♂ | 5.659 |
| 54 | ♀ | 4.394 | 75 | ♂ | 5.226 |
| 55 | ♀ ov | 5.084 | 76 | ♀ | 3.439 |
| 56 | ♂ | 5.330 | 77 | ♂ | 4.949 |
| 57 | ♀ | 4.695 | 78 | ♂ | 5.178 |
| 58 | ♀ ov | 5.646 | 79 | ♂ | 5.250 |
| 59 | ♂ | 4.909 | 80 | ♂ | 4.411 |
| 60 | ♀ | 4.060 | 81 | ♂ | 4.296 |
| 61 | ♂ | 4.494 | | | |
| 62 | ♂ | 5.045 | | | |
| 63 | ♀ | 4.324 | | | |

measured 891 King Crabs.
P. platypus
Spider crabs (Chionoecetes)

Made about 109 ^{sets} drags with haul
34 working days.

Canned in 9 days

Misc collection several thousand spec.

largest crab. 16 lbs.
about 10 inches in width of body.
ave.

7 hauls Olga Bay Hauled about
1000 lbs. shrimp many feet will
have coming data.

Canoe Bay

| Date | Crabs Caught | | Crabs Canned | Date Canned | Not Canned | Post larval (s.jw.) | Gear |
|----------|--------------|-------|--------------|-------------|------------|---------------------|------|
| Sept. 16 | 38 | | 37 | 9/18/40 | 1 | | |
| 19 | 57 | | 50 | 9/21/40 | 7 | | |
| 21 | 150 | } 578 | 400 | 9/24/40 | | | |
| 22 | 125 | | | | | | |
| 23 | 235 | | | | | | |
| 24 | 68 | | | | | | |
| 25 | | | | | | 1 | |
| 26 | 182 | } 377 | | | | | |
| 27 | 195 | | | | | | |
| | | 555 | | | | | |
| | | 401 | 401 | 9/27/40 | | | |
| | | 154 | | | | | |
| 27 | 190 | } 529 | | | | | |
| 28 | 339 | | | | | | |
| | | 683 | | | | | |
| | | 250 | 250 | 9/28/40 | | | |
| | | 433 | | | | | |
| 30 | 45 | 45 | | | | 32 | |
| | | 478 | | | | | |
| | | 270 | 270 | 9/30/40 | | | |
| | | 208 | | | | | |
| Oct. 1 | 199 | } 360 | | | | | |
| 2 | 161 | | | | | | |
| | | 568 | | | | | |
| | | 294 | 294 | 10/3/40 | | | |
| | | 274 | | | 274 | | |
| 3 | 573 | 383 | 383 | 10/4/40 | | | |
| | | 190 | | | 190 | | |
| 15 | 45 | | | | 45 | 71 | |
| | 2602 | | 2085 | | 517 | 104 | |

Cold and Lenard Bays

| Date | Crabs Caught | | Crabs Canned | Date Canned | Not Canned | Post (awa s. juv) | Gear |
|---------|--------------|--|--------------|-------------|------------|-------------------|------|
| Oct. 10 | 2 | | | | | 5 | |
| 11 | 1 | | | | | | |
| 17 | 4 | | | | | 1 | |
| | <u>7</u> | | | | 7 | <u>6</u> | |

Alitak

| | | | | | | | |
|---------|----------|--|--|--|---|--|--|
| Oct. 31 | 1 | | | | | | |
| Nov. 2 | 1 | | | | | | |
| | <u>2</u> | | | | 2 | | |

Olga Bay

| | | | | | | | |
|--------|------------|--|-----|---------|-----|--|--------------------------------|
| Nov. 4 | 286 | | | | | | included 31 <u>P. platypus</u> |
| 5 | 91 | | | | | | included 9 <u>P. platypus</u> |
| | <u>377</u> | | 164 | 11/6/40 | 213 | | |

Shelikof

| | | | | | | | |
|---------|-----------|--|--|--|----|--|--|
| Nov. 15 | 8 | | | | | | |
| 16 | 52 | | | | | | |
| 20 | 5 | | | | | | |
| 21 | 8 | | | | | | |
| | <u>73</u> | | | | 73 | | |

~~Canoe Bay~~

| | | | | | | | |
|--------------------|-------------|--|-------------|--|------------|------------|---------------|
| Sept 16 to Oct. 15 | 2602 | | 2085 | | 517 | 104 | = Canoe Bay |
| Grand Total | <u>3061</u> | | <u>2249</u> | | <u>812</u> | <u>110</u> | = Grand Total |

Canoe Bay | King | Halibut | Cod |
Haul 20 | Crabs

| Haul No | Date | Place & depth. | King Crabs | Halibut | | | Sole and Flounders | | | | |
|---------|----------|------------------------------------|------------------------|--------------|----------|---------------------------|------------------------|-----------------|-------------------------|----------------------|-------------------|
| | | | | spider crabs | unspined | Halibut | Cod | Sole Hippogadus | Lemon sole P. quadratus | yellowtail L. aspera | Starry flounder |
| 20 | Sept. 21 | Canoe 30 | 0 | 12 ♂ 1 ge. | | | | | 24 | | |
| 21 | do | do 35 | 0 | 12-24 | | | | | 12 ± | | several |
| 22 | do | 22-34 ft do | 150-200 mostly m/f | 150-200 | | | | | | | several 2 1/2 ft. |
| 23 a | Sept. 22 | dr (shoaler waters than yesterday) | 113 | | | 1=12 lb | | | | | |
| b | dr | | 0 | | | | | | | | |
| c | dr | | 12 | | | | | | | | |
| 24 | Sept. 23 | dr 25 | 11 ge ♂ (1 young = 2") | 10 | | | | | 1 bilineatus | | 36 |
| 25 | dr | dr | 60 | 24 ± | | | 1=2 ft | | | | |
| 26 | dr | 14-42 | 4 | | | | 1=2 ft | | | | |
| 27 | dr | ? | 13 | | | | 1=1 1/2 ft | | | | |
| 28 | dr | 25 | 12 (8 ♂ 8 ovis) | | | | | | | | 24 ± |
| 29 | dr | dr 25 | 0 | | | | 1=2 1/2 ft | | | | |
| 30 | dr | 35 ± | 148 (mostly m/f) | | | 1=2 lb | | | | | |
| (over) | Sept. 24 | | 68 | | | | | | | | |
| 33 | Sept. 25 | Pavlof Bay 18 fms. | 1=2 in | | | | | | | | |
| 34 | dr | dr 50 f | 0 | few | | | | | Atherostomus 3 ft | | |
| 35 | dr | dr 50 | 1=1/2" | | | | 1=3 1/2 ft. 2=2 1/2 ft | | net full fish haul | | |
| 36 | dr | dr 27 | 0 | | | | 4 dr small 10 inch | | | | |
| 37 | dr | dr 25 | | | | 1=12 lb 12=10 1-12 inches | | | 1500-2000 lbs fish | | |

foreman in Cane Bay

Sept. 24. 4 sets (3A 1st set. = 3 1/2 doz crabs. = 42
3rd = 10
3rd = 10
4th.
few → = 6

Sept. 24

Apr. in Cane Bay

2 sets (said got
8 small
crabs)

| | | | | | | | |
|----|------------------|---|---|---|-------------------------------|---|------------------------------|
| 38 | Sept. 26 | Canoe B 20 hrs. | 70 ¹⁸ _{rest} = orig. ♀. | ✓ | 1 = 2 1/2 ft | 2000 lb fish haul | mostly starry flounder |
| 39 | dr | dr 25 hrs | 102 (only 6 ♀) | ✓ | | | |
| 40 | do | dr 25 | 10 | | 1 = 4 1/2, 1 = 10 in | 2 Bus. fish mostly | P. stellatus |
| 41 | dr | Paylof 15 hrs. | ○ | ✓ | 1 = 2 ft | | |
| — | — | — | 1 = 3 1/4" | — | 1 5 in 3 10 in 1 12 in. | fish haul. mostly yellow tail & <u>lemon sole</u> . | |
| 42 | dr | dr 15 | — | — | — | — | — |
| | | <u>Canoe B.</u> | | | | | |
| 43 | Sept. 27 a.m. | shauls | 190 2 eggs | | | | |
| 44 | Sept. 27 a.m. | 3 hauls. | 195 ² _{small} 216 _{med.} ⊗ Caught tagged crab. | | 2 Sea 3 ft | | |
| — | Sept. 28 | Sept. 28 | | | | | |
| 46 | dr | 4 hauls | 339 21 eggs about even. last haul a full of mud & crabs not one | | 1 = 2 1/2 ft. | | |
| 49 | Sept. 30 | Canoe B. P. m. | 45 ² _{eggs} 19 ⁴ _{eggs} Sept. 30 32 baby. 1-2 in. | | | | |
| 51 | Oct. 2. | dr 35 hrs. | 63 (7 ♀) ^{only} _{heavy} . | | 1 = 12 lb. 2 = 2 1/2 ft | 5-6 doz Limanda. many Pandalus. | 3-4 |
| | | give other nets here = 98 | | | | | |
| | | ⊗ 2nd 2 = small males tagged crab caught here. | | | | | |

52 Oct. 2 Amvets 12

55 Oct. 3 seven haul 578

1=90 lbs

4=117
30 lbs.

63 g Oct. 15 Amvets = 7 orig

b. 2 gill nets 1 net in use.
30-35-45

64 2 18 278

52-44
3 1=8"

1=6 lb

1000 lb flounder
Limanda 8-14 in
1 lamp eel
1 bucket shrimp.

65 Oct. 15 15-20 69 ^{babies} 46
babies
1-2 in.

1 Jan flounder
yellow tail
Limanda per

66 Oct. 15 35-45 16 ⁸ 150
+ 2 = 21 ad
young

1000 lb flounder per
Limanda

67 Oct. 15 20-25 7 = 2 wad
dry.
68 1 ♀

1000 lb flounder.
Limanda 8-12 in

| | | | | | |
|----------------|-----------|-----------|----------|---------------------------------------|---------------------|
| # 60(1) | Steward | Alh. | Oct. 10 | 1000 lb. flounder | ○ |
| 60(2) | " | " | " | 1 1/2 ton " | 1 ♂ (9 in.) |
| 60(3) | " | " | " | 1 ton starry flounder. | 2 babies. 1/2 inch. |
| 60(4) | " | " | " | ± as above. | 2 babies |
| 61(5) | Cold Bay | | " | very small haul | 1 baby (1 inch) |
| 61(6) | " | " | " | 300 lb. flounder | 1 ♂ (9 in.) |
| 62(1) | " | " | Oct. 11 | 1000 lb. flounder | 1 ♂ (8 in.) |
| 62(2) | " | " | " | very small haul | ○ |
| 62(3) | " | " | " | 1500 lb. flounder | ○ |
| 69 | King Cove | | Oct. 16. | 1 1/2 ton flounder | ○ |
| 70(1) | Cold Bay | | Oct. 17 | 1 1/2 ton flounder | 1 ♀ ovary |
| 71(2) | " | " | " | very small haul 1 1/2 buckets full | 1 ♂ |
| 72(3) | " | " | " | very small haul. | |
| gill net 73(4) | " | gill net. | " | gill net. | 1 ♂ (7 in.) |
| gill net 74(5) | " | gill net | " | | 1 ♂ (8 in.) |
| 75(1) | | | Oct. 18 | 3 tubs fish. | 1 baby (1/2") |
| 76(2) | | | " | 1500 1600 lb. fish | ○ |
| 77(3) | | | " | 500 lb. flounder | ○ |
| 78(4) | | | " | 500 " " | ○ |

Miss Ah. - Shumagin - Stephens
 Fleck haul off Castle Bay.

| | | | | Orubs |
|-----|-----------------------------------|---------|----------------------------------|-------|
| #80 | Larson Bay Kagai | Oct. 21 | 3/4 Ton stony | 0 |
| 81 | Miss Ah. | Oct. 21 | small haul | 0 |
| 82 | S.W. Big Koniagi | Oct. 22 | dr | 0 |
| 83 | Side " " | Oct. 22 | dr | 0 |
| 84 | Stephens | Oct. 24 | dr | 0 |
| 85 | " | Oct. 24 | dr | 0 |
| 86 | " | Oct. 24 | 800 lbs fish | 0 |
| 87 | " | Oct. 24 | small haul | 0 |
| 88 | " | Oct. 24 | 25 Fred muffs | 0 |
| 89 | Unga St. | Oct. 25 | very small haul | 0 |
| 90 | Pohst St. | Oct. 25 | small haul | 0 |
| 91 | off Barclay Bay | Oct. 26 | very small haul not too | 0 |
| - | Gill nets off Miss Ah. | Oct. 27 | several skate (R. limboletus) | 0 |
| 92 | 22 miles east of Castle Rock. | Oct. 28 | small haul | 0 |
| 93 | Half of off Castle Bay | Oct. 29 | very small haul not too | 0 |
| 94 | Castle Bay | Oct. 29 | " " " | 0 |
| 95 | " " | Oct. 29 | small haul | 0 |

Alitka - Olga, and Sarg Bay

#96 Alitka Bay

97 " "

98 " "

99 " "

100 " "

101 " "

102 " "

103 " "

104 " "

105 " "

106 " "

107 " "

109 Olga Bay

110 " "

111 " "

112 " "

~~113~~

Oct. 31 very small haul ○

Oct. 31 small haul
2 tubs full. ○

Oct. 31 small fish haul 7 ♀

Oct. 31 very small haul ○

Oct. 31 2 tubs home algae
(very few fish) ○

Oct. 31 very small haul ○

Nov. 1 small haul ○

Nov. 1 very small haul ○

Nov. 1 small haul
net torn ○

Nov. 2 very small haul ○

Nov. 2 4 tubs full 1 ♀

Nov. 2 not much ○

Nov. 4 net mangled
37/40 is Platys 502 ♀ is.

Nov. 4 97 Platys
+ 1 tub full shrimp 37

Nov. 4 200-300 lbs shrimp
18 Platys 7

Nov. 4 nice haul, all
Cantachitica 140 small
98 are
nice

#113 Olga Bay

Nov. 5

100 lb. ship
9 platy. 5849

48

30

all small.

2800

44 small

125

3 small

114

"

"

Nov. 5

500-800 lb. ship

are of this
Curtains = 186" wide

115

"

"

Nov. 5.

net loss

116

Outside Alilats

Nov. 6

0

117

"

"

Nov. 6

0

118

"

"

Nov. 6

0

119

"

"

Nov. 6

0

121

"

"

Nov. 7

0

122

Nov. 8

0

123

Nov. 8

0

124

Nov. 8

0

Shelby St.

| | | | |
|------|---------|-------|----|
| #125 | Nov. 14 | 12000 | 0 |
| 126 | " | 1 " | 0 |
| 127 | Nov. 15 | 326 " | 87 |
| 128 | " | 78 " | 0 |
| 129 | " | 13 " | 0 |
| 130 | Nov. 16 | 0 " | 0 |
| 131 | " | 51 " | 19 |
| 132 | " | 1-2 | 0 |
| 133 | " | 72 | 51 |
| 134 | Nov. 20 | 1 | 0 |
| 135 | " | 1 | 17 |
| 136 | " | 0 | 0 |
| 137 | " | 0 | 4 |
| 138 | Nov. 21 | 1 | 0 |
| 139 | " | 5 | 0 |
| 140 | " | 3 | 0 |
| 141 | " | 0 | 8 |

Korean crab ^{Erismacrus} ~~Chionoecetes~~.

he says it's better than
King crab.

Deep hole that — carries
fishes 81-91 fms. what place
where crabs gather/gotten year-round.
he has deep hole too

Pass
to
the
beach
the
beach
the
beach

9 inch + over crabs

392
456
548
716.

= 8.7
= 8.5 (10/12)
8.5 9/8
8.5'

448 = 9.464 (14/16)

571 = 9.039 (12/9)

and
Cure
Box

857.

860

865

~~866~~
~~868~~

880

881

19 = 8.96

32 = 8.75

110 = 9.343

620 892

Ok. Had dinner ^{canoe by car.}
Best fishing - 40 fms.
all things we got crabs in ~~the~~ ~~the~~

Crabs Taken:

Alitak.

#105 Nov. 2

#106

"

1 ♀

107

"

Platy - caught

3 day
2 crabs

Olga Bay 2 buckets 109. Nov. 4

4 7

Platypus.
30 1 ♀ orig 6" ar
Cant. 1 ♀ orig 6" ar
50 2 ♀ orig 6" ar

frequent boulders 50 Tub full

new net begin #110

110.

"

9 3
~~3 2 9~~

200-300 1/2

111.

"

18 7

100

over
fish
time

112.

"

238

143 small
98 ar.

500-800

200-300

100-100

50-50

850-1250

850

2(2300)

100lbs

113 Nov. 5

9 7

500-800 lbs

114.

72

44 small
28 ar.



115.

Remain of
3 can. small

3

7 hauls = 1000 lbs a better

Tore old net
badly; hence
new one

of shrimp of
commercial size
as value as a
Peletostris species

= 334 King crabs
P. cantabrigia

(but more than
half to small for
butter to can.)

= 40 P. platypus

40 334
184

184 small

150

medium size
none really
large, few above
ar.

20 can of 100 can

Oct. 10th Demard Ah.

- ① none
- ② 1 large King crab.
- ③
- ④

①

Cold Bay

- ⑤ 1 baby King crab.
- ⑥ 1 large 9 inch ♂

②

Oct. 11th

Cold Bay

- ① 1 8 inch. King crab
- ② none
- ③ none.

Oct. 17th

Cold Bay

- #70 ① large King crab.
- #71 ② 1 ♂ King crab
- #72 ③ none
- #73 ④ 1 7th King crab.
- ⑦ ⑤ 1 8th King crab.

②

6.065 ^{5/12}
ca 5 lbs

④

7.424 ^{7/11}
7-8 lbs

Gill net ⑤

8.560 ^{10/14}
10-11 lbs

Gill net ⑥

9.213
13-14 lbs

#61 crab

= 9.316 = 12/8

#703 crab

= 8.789 = 12/0

#682

= 8.792 = 13/1

#626

= 8.920 = 10/13

#487 crab

= 9.047 = 12/13

⊗

#448

= 9.464 = 14/6

Nov. 9, 1940

Crabs of Nov. 5-6 of Olyp Bay (that were dead or died measured & sexed for population ratio. (Though these crabs ~~had~~ ^{had} but is live can we might see in deck most of day & all next day till but is crate alongside Indelant

| No. | Sex | Width of carapace | No. | Sex | Width of carapace |
|-----|---------------------------------|-------------------|-----|-------|-------------------|
| 1 | ♂ | 6.027 | 22 | ♂ | 5.111 |
| 2 | ♂ | 4.811 | 23 | ♂ | 5.178 |
| 3 | ♀ ^{no eggs} | 4.009 | 24 | ♀ | 4.213 |
| 4 | ♀ ^{ov.} egg | 5.530 | 25 | ♂ | 4.485 |
| 5 | ♂ | 5.026 | 26 | ♀ | 3.924 |
| 6 | ♂ | 4.778 | 27 | ♂ | 5.030 |
| 7 | ♀ | 4.442 | 28 | ♀ ov | 4.826 |
| 8 | ♂ | 5.730 | 29 | ♂ | 4.511 |
| 9 | ov ♀ | 4.694 | 30 | ♂ | 5.476 |
| 10 | ov ♀ | 4.446 | 31 | ♂ | 5.390 |
| 11 | ♀ | 4.224 | 32 | ♂ | 5.060 |
| 12 | ♀ | 4.661 | 33 | ♂ | 5.258 |
| 13 | ♂ | 5.476 | 34 | ♀ | 4.778 |
| 14 | ov ♀ | 4.959 | 35 | ♀ | 4.461 |
| 15 | ♀ ^{no eggs} | 4.296 | 36 | ♀ | 4.292 |
| 16 | ♀ " | 4.457 | 37 | ♂ | 5.396 |
| 17 | ♂ | 5.044 | 38 | ♀ ov | 4.227 |
| 18 | ♀ | 5.311 | 39 | ♂ | 4.876 |
| 19 | ♂ | 4.842 | 40 | ♀ ov. | 5.496 |
| 20 | ♀ ov | 5.159 | 41 | ♂ | 5.212 |
| 21 | ♀ ^{no eggs} | 4.194 | 42 | ♂ | 4.462 |

$$6 \text{ inches} \frac{0}{1} = 4 \frac{1}{15} \text{ lb oz}$$

$$5 \frac{1}{2} \text{ lb} = 3 \frac{1}{17}$$

$$7 \frac{1}{2} \text{ lb} = 6 \frac{1}{2}$$

$$6 \text{ lb} \frac{0}{1} = 4 \frac{1}{10}$$

$$\overset{\text{inside}}{3} - \overset{\text{wide}}{3\frac{1}{4}} \text{ lb} \rightarrow = 5 + \overset{\text{thick}}{\underset{\text{wide}}{5\frac{1}{4}}}$$

Wt of little nabs.

by size, canned oct. 4

$$\overset{\text{inside}}{4\frac{1}{4}} \underset{\text{lb}}{\text{}} \overset{\text{wide}}{4\frac{3}{4}} \underset{\text{lb}}{\text{}} = \overset{\text{lb.}}{\text{O}} \text{ T } 5\frac{3}{4} + 6$$

under ~~wide~~ wide

5
18
8
1
36
2
3
170
2133
2
303

pm

am

40 live
small
are
are

20 dead

add

80

383

canned

20 dead per hundred

→ 8 dead

King Crab Pack

| <u>date</u> | <u>no. crabs</u> | <u>no. cases</u> | <u>fine cases</u> |
|-------------|------------------|------------------|-------------------|
| 9/18/40 | 37 | 3 | 16 cans |
| 9/21/40 | 50 | 4 | — |
| 9/24/40 | 400 | 20 | 36 " |
| 9/27/40 | 401 | 21 | 24 " |
| 9/28/40 | 250 | 17 | 45 " |
| 9/30/40 | 270 | 20 | 16 " |
| 10/3/40 | 294 | 26 | 28 " |
| 10/4/40 | 383 | 24 | 6 " |
| 11/6/40 | 164 | 4 | 6 " |

total 2249

139
3

48 197 3
147

total 142 cases 33 cans

$$\frac{2249}{142} = 15.7 \text{ crabs per case}$$

| Date | Crabs Caught | | Cause Bay Crabs Canned | Crabs not canned | Post larval + small juv. | |
|-------------------|--------------|----------------|---------------------------|------------------|--------------------------|-----------------|
| Sept. 16 | 38 | | 37 9/18/40 | 1 | | all gill netted |
| 19 | 57 | | 50 9/21/40 | 7 | | all gill netted |
| 21 | 150 | | | | | |
| 22 | 125 | 578 | | | | |
| 23 | 235 | 400 | 400 9/24/40 | | | |
| 24 | 68 | 178 | | | | |
| 25 | | | | | 1 | |
| 26 | 182 | 377 | | | 1 | |
| 27 ^a | 195 | 555 | 401 9/27/40 | | | canned |
| | | 401 | | | | 2249 |
| | | 154 | | | | 164 |
| 27 ^a | 190 | 529 | | | | <u>2085</u> |
| 28 | 339 | 683 | | | | |
| | | 250 | 250 9/28/40 | | | |
| | | 433 | | | | |
| 30 | 45 | 45 | | | 32 | |
| | | 478 | | | | |
| | | 270 | 270 9/30/40 | | | |
| | | 208 | | | | |
| Oct. 1 | 199 | 360 | | | | |
| Oct. 2 | 161 | 568 | | | | |
| | | 294 | 294 10/3/40 | | | |
| Oct. 2 | | 274 | | 274 | | |
| Oct. 3 | 573 | 873 | | | | |
| | | 383 | 383 10/4/40 | | | |
| | | 190 | | 190 | | |
| | | | 2085 | | | |
| 15 | 45 | | | | 71 | |
| | 2602 | 2602 | | | | 1 gill netted. |
| | | | | 45 | | |
| | | | | 517 | | |

Crabs Taken

gill nets (2 ~~sharks~~ only)
 Sept. 16 + 19. (38 + 57) (18th 37) Canoe Bay 95 (87)

Sept. 21 (150 - 200) (~~21st 50~~) (} ~~200~~
 150

22 (125) 125

23 (235 - 239) 235

24 (68) ~~24th (400)~~ 68

25 (2 babies)

26 (179 - 182) \longleftrightarrow (571) 182
 + 1 baby

27 (385) ~~569~~ (27th 401) ~~195~~ 385 190

28 (339) ~~2570~~ (28th 250) ~~339~~ 339

Oct. 30 (45 + 32 babies) — (30th 270) 45
 199

Oct. 2 (63 + 98 + 12) 360 (30th 294) 161

3 (573) \longleftrightarrow (42 383) 573

(1 was from gill net)

Oct. 15 (45 + 71 babies) 45

Oct. 10 (2 + 5 babies) Cold + Lenard Bays 2

11 (1) }

17 (4 + 1 baby) 4

31 (19) Olga + Alinta 1

Nov. 2 (19) 1

Nov. 4 (255 + 31 platypus) } = 286 = 286
 379

Crabs Taken

1
286

Nov. 5 (82 + 9 platy) ^{1 crab = trap.} Olga ⁽¹⁶⁴⁾ 91 ~~88~~
349 377

Nov. 15 (8) Shelikof 8
16 (52) 52
20 (5) 5
21 (8) 8

not can 73

Of 377 Olga Bay crabs 164
164 were can
213 not canned

King Crabs Taken
Sept. 16 + 19 (38 + 57) 95

95

①

125

after

all day

②

235

1/2 day

12

92

and day.

Per M. O.

(Morning only)

16

179

114

after Parker

16

$$(195 + 190)$$

③

385

1/2 day

339

Sept. 30

45

Page 100

1951.

1600

100

1500

100

Hied in Buch 8/11. 22 - 12

6) 1650

260

250

Friday

3 1/2 day 3.5 / 1600 (

$$4.5 \overline{) 1300} (300$$
$$4.5) \overline{1400} \begin{matrix} 350 \\ 330 \end{matrix}$$

17-18
Grabs for
Case

4 7/8^{days} in Canoe Bay

3. 573 crabs
Oct. 1 - 199 crabs
8.53 - 5.15 a.m.

Oct. 3. 57

2483

$$\begin{array}{r} 270 = 500 \text{ lbs} = 20 \text{ cans} \\ 400 = 500 \text{ lbs} = 20 \text{ cans} \\ \text{?} = 21 \text{ cans} \end{array}$$

$$\begin{array}{r} 401 = \\ 250 = \\ 294 = \\ \hline 1615 \end{array}$$

$$\begin{array}{r} 18 \text{ ''} \\ 26 \text{ ''} \\ \hline 105 \end{array}$$

8-9 inches wide
Males

Wt before
10/2 8"
11/2 1/2 9"
11/6 1/2 9.5"
10/8 9.5"

11/9

54 12oz 23lb 4oz

Wt. 5oz
22lb 1oz

8/9oz leg sides

Wt. leg
9/8

Wt. body
5/8

5-6 inches wide
females

5/2 6"

5/7 1/2 6.2"

4/15 1/2 5"

3/12 4.5"

3/15 4.5"

Wt. legs
11lb 4oz

4lb 14oz

leg meat
4lb 4oz

body
2lb 4oz

Males (5)

Total Crat 54 12oz

Total Waste 30 9oz

Total Meat 15 0

females (5)

Total Crat 23 4

Total Waste 16 2

Total Meat 6 8

133-40

Nov. 16, 1940

22 female (vigorous) King crabs returned
to water, measured, wide, inches:

5.6 53

6.011

5.7 54

6.035

5.7 70

6.070

5.8 20

6.072

5.8 56

6.120

5.9 11

6.198

5.9 24

6.203

5.9 57

6.215

5.9 96

6.253

6.269

6.280

6.307

6.420

Sept. ²³ ~~22~~ ^{freemoving} 9 crabs caught

220
95
125

52
38
14

88 in tanks
1 over board

125

125

Sept. 22 Catch 12 dead in tanks
discarded on Sept. 23

After noon work 147 crabs
= Sept 23 =

Crabs

more around at night

(Call range very active)

? Night Band

In 1938 listed this bay by middle August 3 Sept.

Crabs all over bay at

Sept 26

weighed with
a short ^{thing} _{to}

which did
not shift _{finds}

- | | | |
|----|-----------------|--------|
| 1 | 1.3 - | 10.9 + |
| 2 | 1.6 | |
| 3 | 1.2 | |
| 4 | 1.2 + | |
| 5 | 1.4 | |
| 6 | 1.3 | |
| 7 | 1.6 | |
| 8 | 1.3 7/10 | |
| 9 | shade under 1.3 | |
| 10 | 1.3 | |
| 11 | 1.3 g | |

"Baby" Pandora

Aug. 38 CMT got
300 cases out
of Canoe Bay

Native says come
in in low beach - get
CMT's obs. at all times

| 4-5 inches wide mostly discarded. | 6-7 inches wide | 8 inches | 9 inches |
|--|---|---|---|
| σ { Par. 20 \varnothing 11 + 2 just sin. | σ { Par. 32 \varnothing 10 + $\frac{15}{10}$ { 6 in. 7 in. | σ { Par. 28 # \varnothing 22 + 7 | σ { Par. 22 \varnothing 9 + 1 |
| \varnothing { Par. 17 2 = 5 1/2 + 10 | \varnothing { Par. 25 30 + 13 (just 6) 57 + 34 (7) | \varnothing { Par. 0 \varnothing 1 [?] | \varnothing none |
| Dead. { σ 1 = 9 inch. \varnothing 7 | 67 57 47 25 | | |

$$\begin{array}{r} 34 + 19 + 10 \\ 29 \\ \hline 63 \end{array}$$

$$196$$

$$57$$

$$32$$

$$57$$

$$196$$

$$63$$

$$\begin{array}{r} 348 \end{array}$$

$$\begin{array}{r} + \text{dead} = 8 \\ \hline 36 \end{array}$$

116

125, 126

#116

Shelickoff 85

Nov. 14, 1940

Down 11.50 a.m. 1:15 p.m. down 1.20

Up. 2.25 hauled back

Cable 200 fms

Course N.E.

Depth 65 fms

Bottom ? mud apparently, for there evidence

had to haul back net

rough haul

fish

Sounded at 230 = 80 fms

hauled net (catch only net fish)

- 2 dog fish, 3 + 4 feet Squamula

- 3-4 skates (sh?) there were

- before I could see them

- 1 large sculpin

- several small gastropods

- few hermit dead lobsters

- few small Hyas? - 1 dentation

- " " chironomids? hermit

- 1 tan (pinkish) fungus sponge 1/2" or

- 4-5 large star fish

- 3 large redish lobsters

- no end small ophiurans

- few small

- net full of washed down

again (what is it)

from tubes or sculpin

live or dead + one sculpin live

Stomatopoda stellatus

Limanda aspera

Platichthys quadricornis

Hippoglossoides

Atheresthes

Leptodermus

Myxoxocephalus

Pisaster

Pycnogonidae

Gorgonocephala

not geller fish

I

Mr Mr. II

CANOE BAY

No. males 424
No. ovig. females 278
No. non-ovig. females 10
Sex not specified 1

Males

Average weight (424 spec. weighed) 8.82427 lb. (141.18632 oz.)
Average length (424 " measured) 6.10188 inches
Average width (419 spec. measured) 7.30615 inches

Ovig. females

Average weight (267 spec. weighed) 6.12219 lbs. (97.95505 oz.)
Average length (278 spec. measured) 5.45 inches
Average width (277 spec. measured) 6.04768 inches

Non-ovig. females

Average weight (10 spec. weighed) 1.489375 lb. (23.775 oz.)
Average length (10 " measured) 3.8261 inches
Average width (10 " ") 4.1185 inches

Sex not specified (1 specimen)

Weight 10 lb. 6 oz.
Length 6.860 inches
Width 8.481 inches

Cause Bay Ia

| | |
|-------------------|-----|
| no. males | 424 |
| | 278 |
| no. ovig ♀s | |
| | 10 |
| no non-ovig ♀s | |
| | 1 |
| Sex not specified | |

OK. Canoe Bay

Ib

~~Total length ♂s (424 spec) 2587.198~~

Total width ♂s (419 spec) 3061.279

Av. length ♂s 6.10188

Av. width ♂s 7.30615

Total length of ovig ♀s (278 spec) 1515.103

Total width ovig ♀s (277 spec) 1675.121

Av. length ovig ♀s 5.45

Av. width ovig ♀s 6.04768

Total length non ovig ♀s (10 spec) 38.261

Total width " " (10 spec) 41.185

Av. length " " 3.8261

Av. width " " 4.1185

Sex?

Length

6.860

Width

8.481

Cause Bay Ic

Wt of ♂s { 3741 lbs 7 oz
(598630)
no of ♂s 424

Av. wt of ♂s { 141.18632 oz
8.82427 lb.

Wt of ovig ♀s { 1634 lb 10 oz
(261540)

no. of ovig ♀s 278 (only 267 weighed)

Av. wt of ovig ♀s { 97.95505 oz
6.12219 lb.

Wt of non-ovig ♀s { 14 lbs - 13 ³/₄ oz
(237 ³/₄ oz)

no. of " " 10

Av. wt of " " { 23.775 oz
1.489375 lb

one spec. from Sta, 43-44 sex
not indicated weighed

10 lb 6 oz

Oct. 4th
crabs camp 3d

383 crabs
counted

(93)

45

~~188~~

~~198~~

198

Males 4-5 inches wide

6 inches

8 inches

9 inches

|||||

|||||

|||||

|||||

|||||

|||

||

|||

|||||

|||||

|||

|||||

|||

5 in

1

1

|||||

|||||

|||||

1

6 in = 1/2 ♀

^

females

|||||

|||||

|||||

1

|||||

|||||

|||||

|||

6-11

1

5 1/2 ♀ ||

2 dead ♀ ||| ||

dead ♂ 1

♂

383
covered

(all L⁸⁰ L⁸⁰ L⁸⁰)

mont = 8 1/2

4-5

|||||
|||||
|

6-

|||||
|||||
|||||

7

|||||
|||||

8

|||||
||

9

|

♀

|||||
|||||

|||||

|||||

|||||

|||||

|||||

||

|||||

|||||

|||||

|||||

|||||

|||||

||

|||||

1/5 small
mgs

III

OLGA BAY (Paralithodes camtschaticus)

no no. II

No. males 44
No. ovig. females 66
No. non-ovig. females 23

Males

No weights.

Av. length (44 specimens measured) 4.5281 inches
Av. width (44 " ") 5.27336 "

Ovig. females

No weights

Ave. Length (66 specimens measured) 4.58877 inches
Av. width (66 specimens ") 5.09845 "

Non-ovig. females

No weights

Av. length (23 specimens measured) 3.9369 inches
Av. width (23 " ") 4.5142 "

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III Olga Bny
Crab notes

no ♂s - - - - - 44

no ov. ♀s - - - - - 66

no. non ov. ♀s - - - - - 23

Total lg ♂s (44) 199.240

Ave " " 4.5281

Total wd ♂s (44) 232.028

Ave. " " 5.27336

Total lg ov. ♀s (66) 302.859

Ave. " " 4.58877

Total wd ov. ♀s (66) 336.498

Ave. " " 5.09845

Total lg ♀s (23) 90.549

Ave. " " 3.9369

Total wd " " 103.827

Ave " " 4.5142

III

| | | | |
|---|---|---|---|
| 5 | 1 | 2 | 0 |
| 5 | 2 | 4 | 8 |
| 5 | 3 | 5 | 5 |
| 4 | 5 | 1 | 0 |
| 4 | 8 | 8 | 9 |
| 4 | 7 | 9 | 5 |
| 4 | 6 | 1 | 0 |
| 5 | 1 | 6 | 0 |
| 4 | 4 | 7 | 0 |
| 5 | 9 | 7 | 9 |
| 6 | 0 | 3 | 0 |
| 5 | 9 | 3 | 8 |
| 5 | 6 | 9 | 4 |
| 6 | 2 | 7 | 4 |
| 5 | 9 | 9 | 0 |
| 5 | 0 | 4 | 4 |
| 4 | 5 | 4 | 4 |
| 5 | 0 | 1 | 7 |
| 4 | 8 | 3 | 8 |
| 4 | 7 | 9 | 5 |
| 5 | 0 | 9 | 5 |
| 5 | 0 | 9 | 2 |
| 4 | 6 | 1 | 0 |
| 5 | 2 | 7 | 6 |
| 5 | 1 | 4 | 8 |
| 4 | 7 | 4 | 5 |
| 4 | 5 | 5 | 8 |
| 4 | 9 | 5 | 9 |
| 4 | 9 | 6 | 0 |
| 3 | 7 | 0 | 7 |
| 4 | 8 | 7 | 7 |
| 4 | 5 | 8 | 0 |
| 4 | 3 | 2 | 8 |
| 4 | 7 | 2 | 9 |
| 5 | 3 | 4 | 2 |
| 4 | 8 | 6 | 0 |
| 4 | 9 | 2 | 2 |
| 5 | 6 | 1 | 1 |
| 4 | 6 | 1 | 8 |
| 5 | 1 | 2 | 1 |
| 4 | 7 | 9 | 4 |
| 3 | 8 | 7 | 5 |
| 5 | 3 | 0 | 7 |
| 5 | 3 | 7 | 9 |
| 4 | 5 | 4 | 3 |
| 5 | 3 | 2 | 9 |
| 6 | 1 | 7 | 8 |
| 5 | 1 | 7 | 9 |
| 4 | 8 | 2 | 3 |
| 4 | 6 | 8 | 5 |
| 4 | 8 | 8 | 2 |
| 6 | 2 | 8 | 9 |
| 4 | 0 | 9 | 1 |
| 4 | 5 | 1 | 3 |
| 4 | 6 | 7 | 1 |
| 4 | 4 | 5 | 1 |
| 4 | 7 | 6 | 0 |
| 3 | 0 | 1 | 0 |
| 4 | 7 | 9 | 8 |
| 5 | 0 | 6 | 1 |
| 4 | 7 | 6 | 1 |
| 4 | 7 | 0 | 2 |
| 4 | 4 | 5 | 3 |
| 4 | 5 | 2 | 7 |
| 5 | 2 | 7 | 9 |
| 4 | 4 | 7 | 8 |
| 4 | 9 | 9 | 6 |
| 5 | 1 | 2 | 6 |
| 4 | 8 | 7 | 7 |
| 5 | 3 | 2 | 6 |
| 4 | 7 | 0 | 7 |
| 5 | 2 | 6 | 1 |
| 4 | 3 | 2 | 7 |
| 5 | 6 | 1 | 4 |
| 4 | 9 | 5 | 5 |
| 4 | 6 | 3 | 9 |
| 4 | 2 | 7 | 1 |
| 5 | 8 | 7 | 0 |
| 4 | 8 | 5 | 9 |
| 4 | 4 | 5 | 9 |
| 4 | 3 | 3 | 2 |
| 4 | 1 | 9 | 9 |
| 4 | 3 | 3 | 9 |
| 4 | 0 | 0 | 6 |
| 4 | 6 | 1 | 5 |

4 2 1.3 8 8 S

$$\begin{array}{r}
 4.2998 \\
 \hline
 1.5550 \\
 \hline
 2.7448 \\
 \hline
 1.1888 \\
 \hline
 1.5776 \\
 \hline
 848 \\
 \hline
 774 \\
 \hline
 740 \\
 \hline
 682 \\
 \hline
 58
 \end{array}$$

11. 1. 1.

III

male

average 5.226 S S

| | | | | |
|---|---|---|---|---|
| 5 | 4 | 0 | 0 | ✓ |
| 7 | 7 | 4 | 3 | ✓ |
| 5 | 9 | 4 | 0 | ✓ |
| 6 | 4 | 1 | 2 | ✓ |
| 6 | 4 | 8 | 2 | ✓ |
| 7 | 6 | 7 | 6 | ✓ |
| 7 | 3 | 3 | 0 | ✓ |
| 7 | 1 | 9 | 4 | ✓ |
| 8 | 3 | 4 | 2 | ✓ |
| 4 | 2 | 9 | 4 | ✓ |
| 4 | 3 | 7 | 8 | ✓ |
| 4 | 3 | 6 | 1 | ✓ |
| 6 | 0 | 6 | 0 | ✓ |
| 4 | 5 | 1 | 1 | ✓ |
| 4 | 6 | 1 | 0 | ✓ |
| 4 | 8 | 4 | 6 | ✓ |
| 4 | 9 | 2 | 7 | ✓ |
| 4 | 6 | 7 | 7 | ✓ |
| 4 | 0 | 9 | 2 | ✓ |
| 4 | 7 | 9 | 4 | ✓ |
| 5 | 1 | 6 | 1 | ✓ |
| 5 | 0 | 3 | 0 | ✓ |
| 5 | 2 | 9 | 4 | ✓ |
| 5 | 7 | 7 | 8 | ✓ |
| 5 | 1 | 4 | 2 | ✓ |
| 4 | 6 | 3 | 0 | ✓ |
| 4 | 3 | 8 | 3 | ✓ |
| 5 | 1 | 7 | 5 | ✓ |
| 5 | 3 | 8 | 6 | ✓ |
| 5 | 3 | 8 | 4 | ✓ |
| 4 | 5 | 4 | 8 | ✓ |
| 4 | 3 | 9 | 4 | ✓ |
| 3 | 8 | 6 | 1 | ✓ |
| 3 | 7 | 2 | 6 | ✓ |
| 4 | 5 | 2 | 8 | ✓ |
| 4 | 3 | 7 | 5 | ✓ |
| 4 | 9 | 5 | 0 | ✓ |
| 5 | 1 | 7 | 9 | ✓ |
| 5 | 4 | 6 | 7 | ✓ |
| 5 | 2 | 0 | 0 | ✓ |
| 5 | 2 | 4 | 4 | ✓ |
| 5 | 0 | 6 | 0 | ✓ |
| 4 | 6 | 6 | 0 | |
| 4 | 4 | 1 | 1 | |
| 3 | 9 | 7 | 9 | ✓ |
| 5 | 4 | 0 | 0 | ✓ |

2 4 0.4 1 4 S

wt

kg

wt

♂

4.638

5.400

♀ ovig.

22.700

25.122

♀

III a

| | wt | kg | wd |
|--------------|----|--------|--------|
| ♂ 4 | | 22.480 | 26.577 |
| ♀ ovig. 1 | | 4.193 | 4.795 |
| ♀ 1 | | 4.610 | 7.743 |

III^b

wt

kg

wt

3

18.343

22.200

orig.

4.829

5.160

1

4.061

4.470

III C

wt

kg

wd

1

6.897

8.342

orig.

5

27.196

29.915

III d.

wt

kg

and

1

3.875

4.378

order

4

18.393

20.345

1

3.994

4.544

III f

wt

kg

wt

♂

4

16.824

19.542

ovig. ♀

2

8.591

9.633

♀

III ~~of~~

| | wt | kg | wt |
|--------------|----|--------|--------|
| ♂ 1 | | 4,212 | 4,846 |
| ovig. ♀ 4 | | 18,479 | 20,611 |
| ♀ 1 | | 4,045 | 4,610 |

III h.

wt

kg

wt

2

8.258

9.604

orig. 9

4

16.321

18.354

IIIⁱ

| | wt | kg | card |
|---------|----|--------|--------|
| ovls. 3 | | 13,204 | 14,566 |
| 3 | | 11,375 | 12,615 |

III's

wt

kg

wt

1

4.228

4.794

22.817

25.353

5

III^h.


| | wt | lg | wt |
|--------------|----|--------|--------|
| ♂ 2 | | 8.811 | 10.191 |
| ovig. ♀ 3 | | 13.892 | 15.222 |
| ♀ 1 | | 3.384 | 3.875 |

II

| | wt | kg | wt |
|--------------|----|--------|--------|
| ♂ 2 | | 9.444 | 11.072 |
| ovig. ♀ 3 | | 15.030 | 16.886 |
| ♀ 1 | | 4.878 | 5.379 |

Tim

| | wt | kg | wt |
|---------|----|--------|--------|
| 2 | | 8.507 | 9.772 |
| orig. 3 | | 13.279 | 14.884 |
| 1 | | 4.160 | 4.685 |

III 

ord

kg

ord

3.770

4.383

orig. 2

10.015

10.960

3

11.711

13.055

III^o

wt

kg

wt

1

4.397

5.175

ovls.

4

17.366

19.350

1

2.823

3.010

III

| | wt | lg | wad |
|--------------|----|--------|--------|
| ♂ 2 | | 9.409 | 10.770 |
| ovig. ♀ 1 | | 4.054 | 4.527 |
| ♀ 3 | | 12.087 | 13.509 |

III 2

| | wt | kg | wd |
|--------------|----|--------|--------|
| ♂ 2 | | 7.807 | 8.942 |
| ovig. ♀ 3 | | 13.722 | 15.401 |
| ♀ 1 | | 3.993 | 4.478 |

III 2.

| | wt | kg | wd |
|--------------|----|--------|--------|
| ♂ 2 | | 6.767 | 7.587 |
| ovig. ♀ 3 | | 14.100 | 15.464 |
| ♀ 1 | | 4.146 | 4.707 |

III 5

| | wt | lg | wd |
|-------|----|--------|--------|
| 4 | | 16.563 | 19.032 |
| orig. | | 5.015 | 5.614 |
| 1 | | 3.802 | 4.327 |

III*

wt

kg

wt

3

13.548

15.911

ovl.

3

11.945

13.865

III^u

wt lg

wt

♂

3

12.401

14.131

ovig. ♀

3

13.805

15.188

♀

III ✓

wt

leg

wth

♂

ovig. ♀
2

7.969

8.671

♀

2

7.401

8.205

III

| | wt | leg | wt |
|-------|----|-------|-------|
| 2 | | 8.061 | 9.379 |
| orig. | | | |
| 1 | | 4.079 | 4.615 |

III

wt

kg

wt

orig. 9

5,944

6,612

II

IV

SHELIKOF STRAITS

No. males 26
No. ovig. females 9
No. non-ovig. females 1
Sex not indicated 1

Males

Average weight (25 specimens weighed) 12.305 lb.
(196.88 oz.)
Average length (26 specimens measured) 7.08338 inches
Average width (26 " ") 8.5995 "

Ovig. females

Average weight (5 specimens weighed) 5.85625 lb.
(93.7 oz.)
Average length (9 specimens measured) 6.0607 inches
Average width (9 " ") 6.7144 "

Non-ovig. female (1 spec.)

Not weighed.

Length 4.728 inches
Width. 5.213 "

Sex not specified (1 spec.)

Weight 15 lbs. 5 oz.
Length 9.619 inches
Width. 9.656 "

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*IV. Shelikof Sts
notes*

Total length ♂s (26 spec) 184.168 [✓]
Av. " " " 7.0833 ⁸

Total width ♂s (26 spec) 223.587
Av. " " " 8.5995

Total length ov. ♀s (4 spec.) 54.457
Av. " " " 6.0507

Total width ov. ♀s (4 spec.) 60.043
Av. " " " 6.7144

Length of non ov. ♀ (1 spec.) 4.728
Width " " " 5.213

Length of Spec. Rep? 9.619
Width " " 9.656

Shelikof str.

V

no. ♂s 26

no. or. ♀s 9

no. non ovig ♀s 1

Sex?

~~Total wt ♂s (25 spec.) 307 lb 10 oz
(4922 g)~~

~~av.
Total wt ♂s (25) 12,305 lb
(196,88 g)~~

~~Total wt ^{ov.} ♀s (5 spec.) 29 lb 4 1/2 oz~~

~~av. wt ^{ov.} ♀s (5 spec.) 5.85625 lb
(93.7 g)~~

(1)
non ovig ♀ not weighed

Sex not indicated (1 spec) wt. 15 lbs, 5 oz.

wt

kg

wt

6

72 - 8

42.840

52.090

orig. 9

24

wt

lg

wt

♂

ovig. ♀

♀

1

no

4,728

5,213

IVc

| | wt | kg | wd |
|--------|------|--------|--------|
| ♂ 6 | 77-0 | 43.849 | 52.954 |

ovig. ♀

♀

Id

wt

kg

and

only 4

all 6

all 6

orig. 9
6

23-12

36.541

40.198

He

wt

kg

card

orig. ?

2

no

12,226

13,393

ITf

wt

kg

wt

5- 51-6 33.068 40.022

order.

Is

wt

kg

wx

♂

15-5

7.688

9.619

ovig. ♀

♀

Sep?

15-5

9.619

9.656

Th

| | wt | lg | wt |
|--------------|---------|--------|--------|
| ♂ 5 | 66-3 | 36.964 | 45.284 |
| ovig. ♀ 1 | 5-8 1/2 | 5690 | 6.452 |
| ♀ | | | |

14

wt

kg

wt

15

7.546

9.163

orig. 9

Xi

OLGA BAY (Paralithodes platypus)

No. males 31
No. ovig. females 7
No. non-ovig. females 3

Males

No weights made

Average length (31 spec. measured) 5.31145 inches

Average width (31 " ") 6.814645 "

Ovig. females

No weights.

Average length (7 spec. measured) 4.5051 inches

Average width (7 " ") 4.959 inches

Non-ovig. females

No weights

Average length (3 spec. measured) 3.448 inches

Average width (3 " ") 3.842 inches

SMITHSONIAN INSTITUTION
UNITED STATES NATIONAL MUSEUM

WASHINGTON, D. C.

OFFICIAL BUSINESS

PENALTY FOR PRIVATE USE TO AVOID
PAYMENT OF POSTAGE, \$300

IV Olga Bor-
is platypus
notes

Alga Bay

IV

no. males - - - 31
 no. ovig ♀s - - - 7
 no non-ovig ♀s - - - 3

no ivights

Total length ♂s (31 spec) 164.655
 Ave. " " 5.31145
 Total width ♂s " 211.254
 Ave. " " 6.814645

Total length ov. ♀s (7 spec) 31.536
 Ave. " " 4.5051
 Total width " " 34.713
 Ave. " " 4.959

Total length non-ovig ♀s (3) 10.344
 Ave. " " 3.448
 Total width " " 11.527
 Ave. " " 3.842

Handwritten notes on the left side of the page, including the word "The" and some illegible scribbles.

2 3 2 0 8
2 3 0 1 3
2 2 5 0
2 3 1 3 3 8
2 1 2 7 0
2 1 5 1 3
2 1 2 2 3

A large handwritten 'A' with a diagonal slash through it.

1 6 4 6.5 5H

5.7 2

| | wt | kg | wt |
|--------------|----------|--------|--------|
| ♂ | 4 no wts | 23.208 | 26.972 |
| ovig. ♀ 2 | no wts | 9.328 | 10.341 |
| ♀ | | | |

~~IXa~~

| | wt | kg | wt |
|-------|-------|--------|--------|
| 6 | 74 wt | 32.013 | 37.424 |
| orig. | | | |
| | | | |

IVb

wt

lg

wt

6

no wts

32.090

37.421

orig. ?

8

~~III~~c

wt

kg

wt

6

no wt

31.338

36.388

0.15

0

11/1

wt

kg

wt

4

no

17.223

19.566

orig. 9

no

4.080

4.477

1

no

4.032

4.710

IV⁹

wt

lg

wd

♂

3

no

16.270

18.948

ovig. ♀

2

no

8.806

9.559

♀

IIIe

| | wt | kg | wt |
|-----------|-----|--------|--------|
| ♂ 2 | 700 | 12.513 | 14.535 |
| orig. ♀ 2 | 700 | 9.322 | 10.336 |
| ♀ 2 | m. | 6.312 | 6.817 |

TVF

with
875



✓ 2 6 9 .7 2
✓ 3 7 4 .2 4
✓ 3 7 4 .2 1
✓ 3 6 3 .8 8
✓ 1 3 9 .4 8
✓ 1 4 5 .3 5
✓ 1 5 5 .6 6

2 1 1 .2 .5 4 H

lengths
owing to

IV

now

5 3.1 2

4 0.3 2

1 0.3.4 4H

widths

5 8.1 7

4 7.1 0

1 1 5.2 7H

lengths

~~IV~~

ov. ♀ S

✓ 9 3.28

✓ 9 8.06

✓ 9 3.22

✓ 4 6.80

31 5.36H

widths

ov. ♀ S

✓ 10 3.41

✓ 9 5.59

✓ 10 3.36

✓ 4 4.77

34 7.13H

Sept. 17, 1940

Ovig. ♀ of Sept. 17, 1940.

Sta. 13-40.

| | | |
|-----------------------|----------------|-----------------|
| Dish, pleopods & eggs | = 413 gr. | 14.80 oz. |
| Dish and pleopods | = 157 gr. | 5.80 oz. |
| Total egg mass | <u>256 gr.</u> | <u>9.00 oz.</u> |

| | | |
|--------------------------------|---------------|----------------|
| Selected sample of dish & eggs | = 155 gr. | 5.45 oz. |
| dish & bag | = 140 gr. | 5.4 oz. |
| | <u>15 gr.</u> | <u>.45 oz.</u> |

- - - - -

Sept. 21, 1940

♀ A

No. 19-40

| | | |
|---------------------------|------------|----------|
| Weight eggs + pan and bag | 392 gr. | 14 oz. |
| Weight of pan and bag | <u>139</u> | <u>5</u> |
| Weight of entire egg mass | 253 gr. | 9 oz. |

| | | |
|---|------------|-----------|
| Weight eggs to be counted | | |
| + pan and bag | 148 gr. | 5.3 oz. |
| Weight of pan and bag | <u>139</u> | <u>5.</u> |
| Weight of eggs put in ROH to be counted | 9 gr. | 0.3 oz. |

♀ B

| | | |
|----------------------------|------------|-------------|
| Weight of eggs + pan & bag | 427 gr. | 16.00 oz. |
| Weight of pan and bag | <u>140</u> | <u>5.05</u> |
| Weight of entire egg mass | 287 gr. | 10.95 oz. |

| | | |
|---|------------|-------------|
| Weight of eggs to be counted | | |
| (+ pan & bag) | 148 gr. | 5.25 oz. |
| Weight of pan & bag | <u>140</u> | <u>5.05</u> |
| Weight of eggs put in ROH to be counted | 8 gr. | 0.2 oz. |

- - - - -

Sept. 29, 1940

No. 46-40

Canoe Bay

| | | | |
|---------------|---|-----------|----------|
| Crab No. 594 | Weight total eggs | 177.0 gr. | 6.3 oz. |
| | Weight of eggs to be counted (in Bouin's) | 9.0 | 0.4 |
| Crab. No. 595 | Weight total eggs | 178.0 gr. | 6.32 oz. |
| | Wt. eggs to be counted (Bouin's) | 10.0 | 0.4 |
| Crab. No. 596 | Wt. total eggs | 130.0 gr. | 4.67 oz. |
| | Wt. eggs to be counted (Bouin's) | 10.0 | 0.4 |

(Amphipods were taken from egg masses)

| | | | |
|----------------|------------------------------|-----------|----------|
| Sept. 30, 1940 | No. 46-40 | Canoe Bay | |
| Crab No. 598 | Wt. of total eggs | 175 gr. | 6.20 oz. |
| | Wt. to be counted (ROH) | 7 | 0.18 |
| Crab No. 599 | Total wt. of eggs | 155 gr. | 5.50 oz. |
| | Wt. eggs to be counted (ROH) | 10 | 0.32 |

- - - - -

| | | | |
|--|-------------------------------------|-----------|----------|
| Sept. 30, 1940 | No. 46-40 | Canoe Bay | |
| Crab No. 600 | Wt. of total eggs | 206 gr. | 7.35 oz. |
| | Wt. eggs to be counted (Bouin's) | 12 | 0.4 |
| Crab No. 597 | Wt. of total eggs | 52 gr. | 1.82 |
| | Wt. of eggs to be counted (Bouin's) | 13 | 0.46 |
| (This crab had comparatively few eggs and their color was a darker rust brown. Maybe she had shed some already?) | | | |

| | | | |
|--------------|----------------------------------|---------|----------|
| Crab No. 602 | Wt. total eggs | 205 gr. | 7.30 oz. |
| | Wt. eggs to be counted (Bouin's) | 8 | 0.19 |
| Crab No. 603 | Wt. total eggs | 163 gr. | 5.80 oz. |
| | Wt. eggs to be counted (ROH) | 10 | 0.35 |
| Crab No. 601 | Wt. total eggs | 135 gr. | 4.80 oz. |
| | Wt. eggs to be counted (Bouin's) | 12 | 0.40 |

- - - - -

| | | | |
|---------|-----------|------------------------|----------|
| 9/30/40 | No. 49-40 | Canoe Bay (Baby crabs) | |
| S8917 | 1.8 oz. | S8937 | 1.10 oz. |
| S8918 | 1.0 " | S8938 | 1.62 " |
| S8919 | 1.42 " | S8939 | 1.40 " |
| S8920 | 1.3 " | S8940 | 1.10 " |
| S8932 | 1.3 " | S8941 | 1.80 " |
| S8933 | 1.22 " | S8942 | 1.65 " |
| S8934 | 1.70 " | S8943 | 1.10 " |
| S8935 | 0.85 " | S8944 | 1.50 " |
| S8936 | 1.92 " | S8945 | 1.08 " |

High

$$2\frac{1}{2} + 3 \text{ hrs} =$$

~~High~~

$$7/8 - 2/5 \text{ of } 1/32$$

$$1/2 + 1/32 + 2/5 \text{ of } 1/32$$

$$2 \frac{1}{16}$$

$$2.53$$

$$1.85$$

$$1.55$$

$$1 - 4 \times 5 = 20$$

8.5

4.85 mm.

4.680

3.915

6.386

Do not include
these 2 crabs

in totals

II

II 716, 717 718 719.

Qms unde

♂ 6.897 8.560

♂ 6.295 7.424

= ~~5.756~~ = ~~6.665~~ = ♀ orig

♂ 7.877 9.213

3 21.069

avr. 7.023

3 25.197

avr. 8.399

Nov. 14, 1940

125

new style
net for
crabs

Shelikoof Sts

Air temp. 36°F
Earth temp 38

{ Started to shoot net at about 11 o'clock
found it needed repairs was
brought back in board at once.

Over at 11.50 but ~~boats~~ ^{boats} were found
crossed about time net struck
bottom and it was hauled back
immediately.

One large live scallop found
on foot rope, shell broken.

Sounded at 12.10 but line got tangled
in haul and parted, lead recovered
Depth about 65 fms.

Nov. 14

#126

Shelikoff Sts

Over 1.15

Down 1.20

Sinking 1.25

Up, 2.25 (hauled back)

Air temp. 36°

(Carl had 38°)

Weather overcast
light breeze
mist + little rain

Cable out 200 fms

Course N.E.

Depth about 65 - about 80 fms.

Bottom ? soft mud. judging from appearance of dm

Sounded at 2.30 - about 80 fms

no bottom sample.

Haul "Scrap, no fish"; Basket star haul

2 dog fish *Squalus suckleyi* 3+4 feet

doz skates (gen? sp? not binoculata) thrown back before I saw them.

1 large scallop *P. caurinus*

several clam shells dead

many small gastropods mostly with hermits

1 *Planorbis*.

few crust. no shrimp, all small crab and
hermits few of each, few *Chionoecetes*, + *Hyas*?

4-5 large starfish, few others diff. species

2-4 large urchins (Echinoderms different from those seen here to fore; except basket

no end small *Phoron*, some curved stars.

net was full of entangled basket stars

about wash tub full (*Astrophyton*)

1 tan finger sponge half of it curved

1 hydroid attached to shell

1 or more bits of jelly - not jelly fish.

fish

Nov. 15-40

Over at 800

Down 8.15

Up. 10.15

Catch 150

Course S.S.W.

Depth 48 fms. - 35 fms

#127

Trawling from
Kintzhabek Point
Shabun Rls

Shelkoff Shs.

Air temp 34°

off Halls Bay

87 Kings
crab
largest
4" 5" over
3d legs
laterally extended

mostly 6 1/2 to 8 inches
326 Sculpin Paul

15-20 scales. mostly 3 ft wide

37.8 Chin. reaches 3 1/2 - 6 w
mostly 5-6 ds

2-3 lemon sole about 10 in
1 hithyoids 12 inch

3 large starfish large armed flabby species
as in 128

jelly fish large stuffed

many sea pens; Pennatulids

1 Cucumaria

Pennatulids

few large brown algae
red & brown

Pennatulids
aculeatus

Nov. 15

10.55

12:30

Out 150

Depth 35-50

128 stky

Out 1055

in 12.30

Cable 150

course S.S.E.

cloudy rain
127 815
1015
5.5 hr
course
Bart
29:00

stky from board, only a few grains sand in sample; at end pc. of stone = gravel

1 Dungess crab

4 S. bilobata 13 in

Shale egg cores with young

Rhinoceros 12-4
3 feet
+ young of same

pink shales
the last
mud half dozen

R some red to brown algae each band

(dry) 12 large yellowish shells 12 in
large Pyrenocypris 18" dia
3-4 Solaster yellowish
60% more Chironomus 5/2

1 halibut (2 ft)
1 red starfish
lots of basket clams with full

20-30 shales, largest
2 ft across, smaller about 1/4
few greenish white murchies
perhaps a dozen

78 Scallops; size as before
2-4 Chironomus muds
doz each

masses of (Hydrants some raised)
(No. barely bored wood with
thin shanks in it & some
few large leaved algae, red & brown)

Nov. 14, 1940

125

Shetkof Sts

Over at 11.50 am net tangled was
got 1 large blue scallop hauled in again
on foot rope

Air temp 36°F

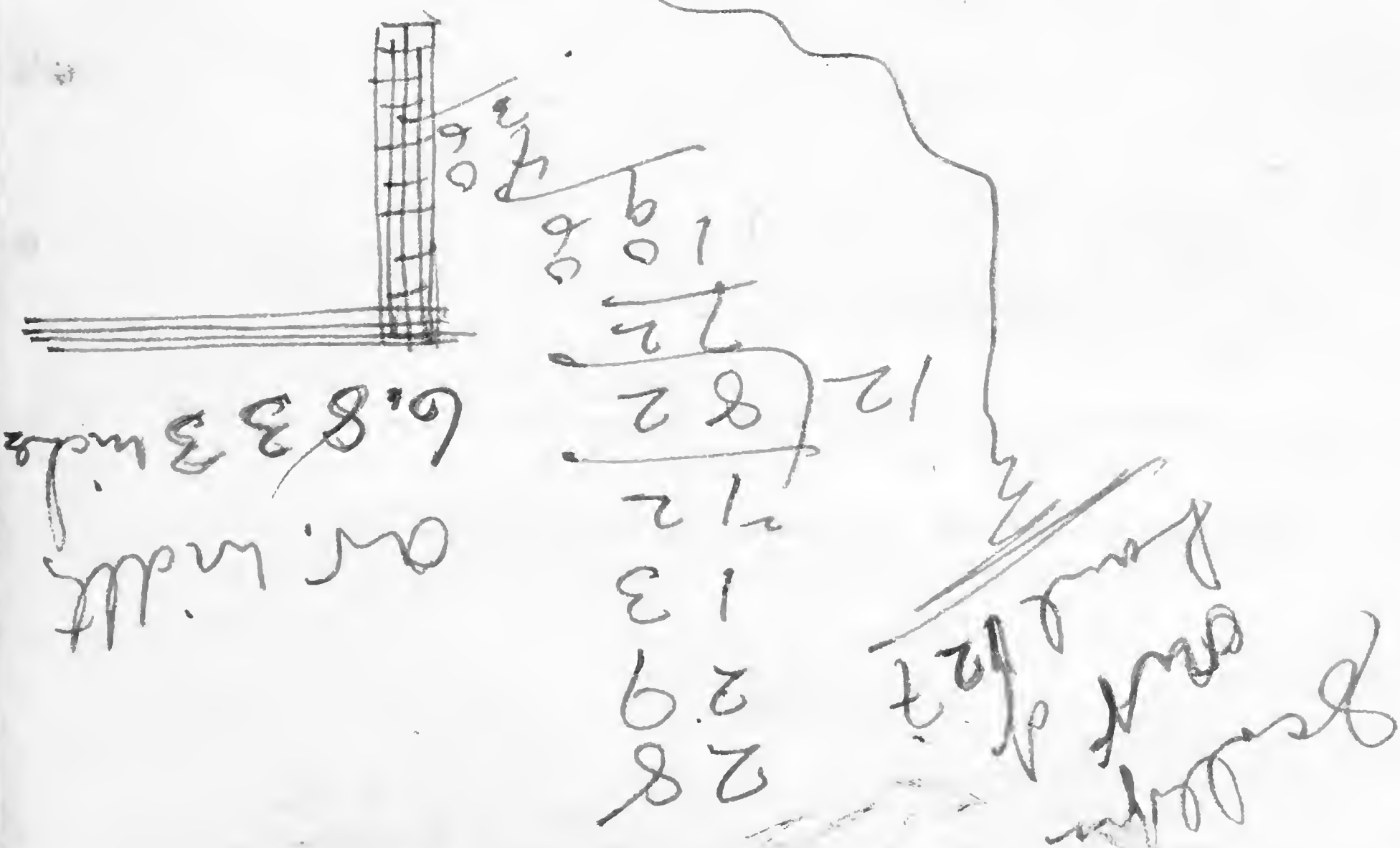
Over at 1.10 p.m.

Down at 1.20

Fishing at 1.25

Up. 2.25 p.m.

Lab



Some basket stars & slugs
in most every haul

Nov. 15/40.

129

Sizes of
2 scallops
examined
4 = 7 in wide
4 = 7 1/4 in
2 = 6 1/2 in.

Thick 1.15 pm
Wp. 3.00 pm.

Grand
Kubak Bay

Cable 150
Depth 48

somehow
still muddy mud

2 = 6
12 all told
from haul
#129 = 40

Net tore at wing
& took rest of
daylight
In ending so
this was
last haul
of day

3 Balanus (35 lt 35 lb, no 16 lb)
for spine crab

1 a 2 Metridium
1 a 2 Plumpy Penicillaria

dozen of large stars

2-2 dozen red & orange slugs

1 large shrimp 1 foot x 1 foot
high wide

2-3 limon sole 17 inch

4-5 bilineata 1 foot ±

3 1/2 starry flounder 17 inch & larger

Hippoglossoides
few mussels

several brown shales
doz orange slugs
hydroids

2 brown eyed
shale snail
1 foot wide
±

13 scallops
Hydroids
1 large
2 small
1 small shrimp
many shells
2-3 Cucumaria
some red &
brown large
each

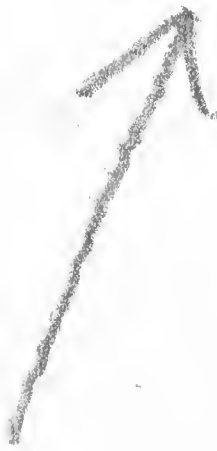
~~129~~

154

Nov. 15-1940

154.20

N.



Shakun Rks

C. Chigiale

58° 30'

Halla Bay

C. Nakshole

128

127

129



Down
10:20
Up 11:25

134-40
Nov. 20, 1940

Bright sunny
day; fresh W
breeze;
Baro.

Depth 55 fms - 40 fms

mud.

175 fms cable

1 small lobster
about 1 ft long

Temp at 3.20
= 35° F

2 large *Chironomocela* + 2
young about 2 in. wide
6-8 dog fish 2-4 ft ±

5-6 grey cod 22 in. long
about 18 in. long

2 amber loach 17 + 4 or 5 young
5-8 1/2 inches

dog cyanea

1 pollack 18 in. (whiting)
1 small *Lilius* (Cyanea)

2 small brown eyed skate
14 in. wide

2 dog grey cod. young 10 in to 16 in

20 ± *Phytocoma*

1 orange mud crab

8-10 *Hippolamides* 5 1/2 - 8 in

2-3 *Trachet* stars

1 S. d. v.

2 dog lion cod 6-10 in ±

Some scraps of red & brown algae

6 *Pecten jordanii*?

1 large 7 in
Pecten caurinus

1 *Argo buccinum*
2 aged.

1 small
hermit

2 *Hyas*
2 small *mayade* (~~Hyas~~)

1 small
Spirontocaris

135

Nov. 20, 1940

Bright sun.

3604

Dr. N. W. Hoag

~~10 min~~ 11.45?

up 51.10

40 fm S.

125 cattle

much; 48 at and little soft mud on
sampler which dried but had
little in it

1. Algebra

End

134

$\frac{1}{2}$ inch

10/12/11
10/12/11
10/12/11

1st + 10th

Small
Lemon

1. small

~~10/11/18~~

~~Was~~

3-4

CO
1027

1 ♂ King on ab alone
1 ♀ H. + queen

2 Larger cod ^{1 2 ft. ± and} several half size

3 Large arrow tooth $\frac{1}{2}$ doz - 9

1. $(13 + 10\frac{1}{2}) + 10$ each market rate

perbata dozen 5 6 7 m dan

2 dozen live cod.

2. Fishes are large about 12 inches
longer than body, thick scales,

2. Rubber about 10 inches.

12-18 Strongylocentrotus

Half dozen. Please

Just my all hand job

1-7 only solidify with hydrazine

2 expended skate cases

red & brown, algal
few strands of eel grass

136-40

Nov. 20-40

Jan 1.10

Apr. 215

48 fms - 25 fms at end

Sampler must have landed on side
few mud frags in net

9 ~~to 10~~ lemon size 11-15 inch

50 good fat *Philosarcus*

6-7 baby halibut 10-14 inch ^{up to 21 inch}

but full large (*Ogarcus*)

1 *Evasteria* 2 ft or all

1 flat star

dozen or so *Pandalus* (2 spec)

dozen *Lim* cod. 5-10 inches

8 *Anthogloss* 6-10 inch

dozen *Amor* *Lothar* + 3-12 inch

1 flat cod 10 inches

1 ? *L. bilineata*? 7 inches long

Down 2:

Wh.

Cable

Depth 25 fms.

#137-40

Nov. 20-1940

sun
fresh water
beige

1 Baby bird 8 1/2 in

1/2 tub full Cyanea

20 ft basket slant

48 King crab

1 Argo buccinum

138-40

Down 8.35

Up 11.45

Nov. 21, 1940

Bright

clear

calm

23° at 6.45 a.m.

Depth 40 fms - 28

Temp at 11.35
at 26 fms

31 at 11.45

Bottom of grey mud, a lead

7.8 (avg 7.5)

at read

sliding at end in sampler

surf 7.5

avg 7.3

bilimeata 11 + 14

2 - 40 inch wide R. binnoculata

1 - 2 1/2 foot dog fish

9 grey cod = 11 - 18 inches

3 Trichodon

1 black cod 9 1/2

1 Cucumaria

2-3 Eristenae mud hocker

6-8 large Gyanea.

1 large Chironocetes 6 inch wide

6-8 Pandanus

dog tail of small Chironocetes

1 Myoxocephalus

1 Argobuccinum

6 Anas 1 1/2 - 7 inch

Many Phtosaurus

1 Hermit

1 sculpin

1 Aphrodite

Just small
mudhacker
the common
one ✓

shards of
eel
in each haul in
this area

28-40 fms.
139-40

Down 1150

Nov. 21-1940

Up 1250

2 cod in stomach { 1 = ca. 14-16 in.
1 = ca. 12 in. long

Market Sole

1 large 70-75 lb
mully over
2 mpy
50 callets

1/2 lit full all lobes
1 anar tooth 8"

1 bioculata 2'8"; 3'4"; 1'8"

2 dog 3 ft.; 2 1/2

1 Chryso-

~~10-12~~ Argo bucc. 10-12 of them

dry small Chironoculi

dry Otthosarcus

dry murch. 3 shrub.

dry small Cyanea

~~10-12~~

hydrant Bouyager

1 spring sun star

1/2 (Market sole 10-6 inch

1/2 dog can not small

1/2 dog Pandanus (marg broken)

1 Trichodon

a few bristled stars

clear light
nearby cabin
temp 30°
at 12,45

a few
black
mussels
in this + abt
perianth band

Hya
1 ~~Argo~~

leeder have
on deck in
every haul

Aphrodite
in this +
in 138
one each

1 Nectosaurus
1 small canch
1 small
1 skin

139-9=114 by 24/27

Up. 1.15

Down. 300

40-28 fms.

140-40

Nov. 21, 1940

Warm ~~23~~
sunny calm
day

✓ grey cod
19 miles

✓ red cod

✓ mackerel

✓ hydroids in
net

✓ Belding's
squirrel

✓ aphrodite

✓ 1 found in
dredge
by 24/27

✓ 3 skate 2-3 1/2 (1-2 1/2)

✓ 2-3 ft dogfish

✓ 1 baby halibut

1/2 tub Gynea

✓ 1 whiting 20 inch

5 spider + 3 starfish

drawn 1 = ca 6 1/2
inches

✓ 2 - 11 inch black cod

✓ 2 - 13 inch lemon sole

2 dozen / 20-70 / Lemon cod up to 1 ft long

+ ~~Erastrom~~

2 flat star

1 = 13 in

1 = 5-6 in

✓ 2-3 dog Phlebobranch

✓ 3 scallops 2-7 inch / 4 inch

✓ 2 L. bilineata (1 = 12"

1 = 10"

1 Cucumaria

✓ 1 Erastrom

✓ 1 reddish, granular but more
probably star Erastrom

141-40

Nov. 21-1940

Down $3\frac{55}{5}\frac{35}{35}$

49 fms - 19 fms

Boat shells sand & gravel

Clean
Calm.

usual
haul
of day
about
a bit
full

but full of fish

Clithrum

Spiders large & small

lim. cor.

Shells

8 king crabs 6 measured
where are 2 of them

| Haul | Date | Place fished | King | Spotted Puffer | Hali but | Cod | Sole + flounder | starry |
|-------|---------|-----------------------|---------------------|----------------------|--------------------------------------|-----------------------------|---|--------------------------------|
| 60(1) | Oct. 10 | Leonard Hbr. 65-40 | ○ | 1/2 tub small. | | 12 = { 20-30 in 6-7 lbs. | 1000 lbs mostly Limanda | |
| 60(2) | dr | dr. 40-25 | 1 ♂ 9 in. | few | 2 = 14 in | | 1 1/2 Ton flounders. | starry 12-18 in 4-7 lbs. |
| 60(3) | dr | 25 | 2 baby 1/2 inch. | 2-3 doz. 1/2 tub. | | 24 = 3-5 lbs | | mostly starry |
| 60(4) | dr | 20-25 | 2 baby 1/2" | as before. | | | 1 Ton starry flounders. | |
| 61(5) | Oct. 10 | Cold B 12 Hrs. | 1 = 1" | | | | dry 100 flounder + some other fish. | |
| 61(6) | " | 34-20 | 1 large 9 inch. | | 4-5 = 6 to 10 in | | 300 lbs. mostly Limanda. | |
| 62(1) | Oct. 11 | Cold B 28 | 1 large = 8 inch | | | | 1000 lbs mostly Limanda | |
| 62(2) | dr | 20-15 | | | 14 = 4-10 in | | small haul, several dry Limanda + a few each of other common species | |
| 62(3) | dr. | 15-26 | ○ | 2 | 1 = 40 lb 1 = 12 lb. 4 = 2 lb. | | 1500 lbs. mostly Limanda | |
| 69 | Oct. 16 | King Cove. 15-35 | ○ | 5 | 6 = 8- 33 in | | 1 1/2 Ton flounder mostly Limanda | |
| 70(1) | Oct. 17 | Cold B. 15-30 | 1 ♀ orig | | 5 = { 8- 14 in } 6-11 12 = lbs | | 1 1/2 Ton flounder 1/2 = Limanda 8-12 in 1/2 = Plat. stellatus 10-15 in = 3-6 lbs. | |
| 71(2) | Oct. 17 | 25-15 | 1 ♂ | | 1 = 13 in | | 1 1/2 bushels full of few flounder | |
| 72(3) | Oct. 17 | 15-50 | ○ | | | | very small as above. | |

Reddish slabs + large reddish
mchins = #126-40, Nov. 14, 1940
(129) 1 large ~~Exastrias~~ saved. ~~127-0-128~~

#128 pinkish skate (one or two saved)
#128-1 red flat slab

#129 rock with rock crystal + worm tubes

128 orange + red slabs smooth

129 Teredo bored wood broken up. = 129
with worms + tiny Spirontocaris

~~128-2 ss. gravel~~

~~Vessels~~

~~G. W. Harrison~~

Down 11:50 *

125-40

Air temp. 36°F

Nov. 14, 1940

Depth about 65 fms.

(sounded at 12.10 p.m. but line got tangled in incoming trawl; line cut but end with lead saved)

* Started to put over net at
* ~~Net was put over at 11:00~~ but soon
it was noticed that cables were crossed

*



| | | |
|---|--|--|
| Hippoglossoides classodon | 16 6-15 inches 10-20 | 4 lbs. |
| Platichthys stellatus. 70 = 10-15 - 3-6 lbs. 15-20 #60 = 12-18 in. 4-7 lbs. | 6-14 8-16 20 inches 22 14-16 26 inch. | 1-3 1/2 lbs. 2 1/2 - 3 1/2 lbs. 1 - 2 1/2 lbs. 1 1/2 - 2 1/2 lbs. |
| Pleuronectes quadrituberculatus. | 12-16 inches 20 inch. | 4 lbs 4-5 lbs. 5-6 lbs. 7 1/2 lbs. |

Halibut.

| | |
|-----------|---------------|
| 12 inches | 3 1/2 lbs. |
| 10 inches | 3 lbs. |
| 12. | 2 1/2 lbs. |
| 12 | 2 1/2 - 3 lbs |

Cod.

| | |
|-------------|------------|
| 3 ft | 20 lbs. |
| 28-12 inch. | 3-10 lbs. |
| 12 inch. | 1 1/2 lbs. |
| 20-30 inch | 6-13 lbs. |
| 14-20 inch | 2-5 lbs. |

Silver
Hake

Atherestes

18 inch.

14 lbs.

Limanda aspera.

11-13 inches.

1 1/2 - 2 1/2 lbs.

#58

12 Hungeness crab.

avr. 3 lbs., 7 1/2 inches 5 in long.

Hungness crabs.

At Chigrid got so many in purse seine
haul, could scarcely save the net (see below
at Perryville)
recounting
experience of his
natives

At Strawberry Pt. Side Traction
(enough wild strawberries to can) (Nov. 2)

Day St. bet. Dunbar and Point Hope
got so many Hungness crabs that
traps bent (had 20 large traps)

Grants, Nov. 2. fished Hungness
here and in Glacie Bay + sold them
to cannery at Uman.

Sept. 24, Make sheets with
~~large encailed forms~~ ^{de animal form}
in measure height where there is no
and tubercles measure extreme height
where spine replaces tubercles, have to
take median edge for front.

Sort Articulation of young spec
(? and females) way under
in large males is very hard.

Where Bry. are mentioned are white
(when dark are specifically restated)

Hydras chiefly a very large
one seems only to notice
Hydras in large spec
"full a year attention"

Wp to ~~the~~ ^{60 67 68} ^{with a delta}
side of calyx, otherwise blunt as
we do in width of calyx
main thing that imaginary line
connecting points or ends of
calyx pass through a median
points we measure across

| | | | | | | |
|------------------------------------|---|---|---|---|---|-----------|
| 1. No. | 1 | 2 | 3 | 4 | 5 | No |
| 2. Sex | | | | | | Sex |
| 3. Condition (hrd. sit. peeler) | | | | | | Condition |
| 4. Weight | | | | | | |
| 5. Length | | | | | | |
| 6. Width | | | | | | |
| 7. Width abd. | | | | | | |
| 8. Lgth. 3rd merus. rt. | | | | | | |
| 10. Tag No. | | | | | | |
| 11. Growth on shell | | | | | | |
| 12. Food in mouth parts | | | | | | |
| 13. Stomach contents | | | | | | |
| 14. Parasites, (gills also) | | | | | | |
| 15. Weight total eggs | | | | | | |
| 16. Eggs per unit | | | | | | |
| 17. Major chela long | | | | | | |
| 18. " high | | | | | | |
| 19. " thick | | | | | | |
| 20. | | | | | | |

Out with first 4
measured
make fewer entries per sheet
reduced the number of entries
more readable for entries
containing

Abnormalities

renewal
of legs.

Growth
on shell

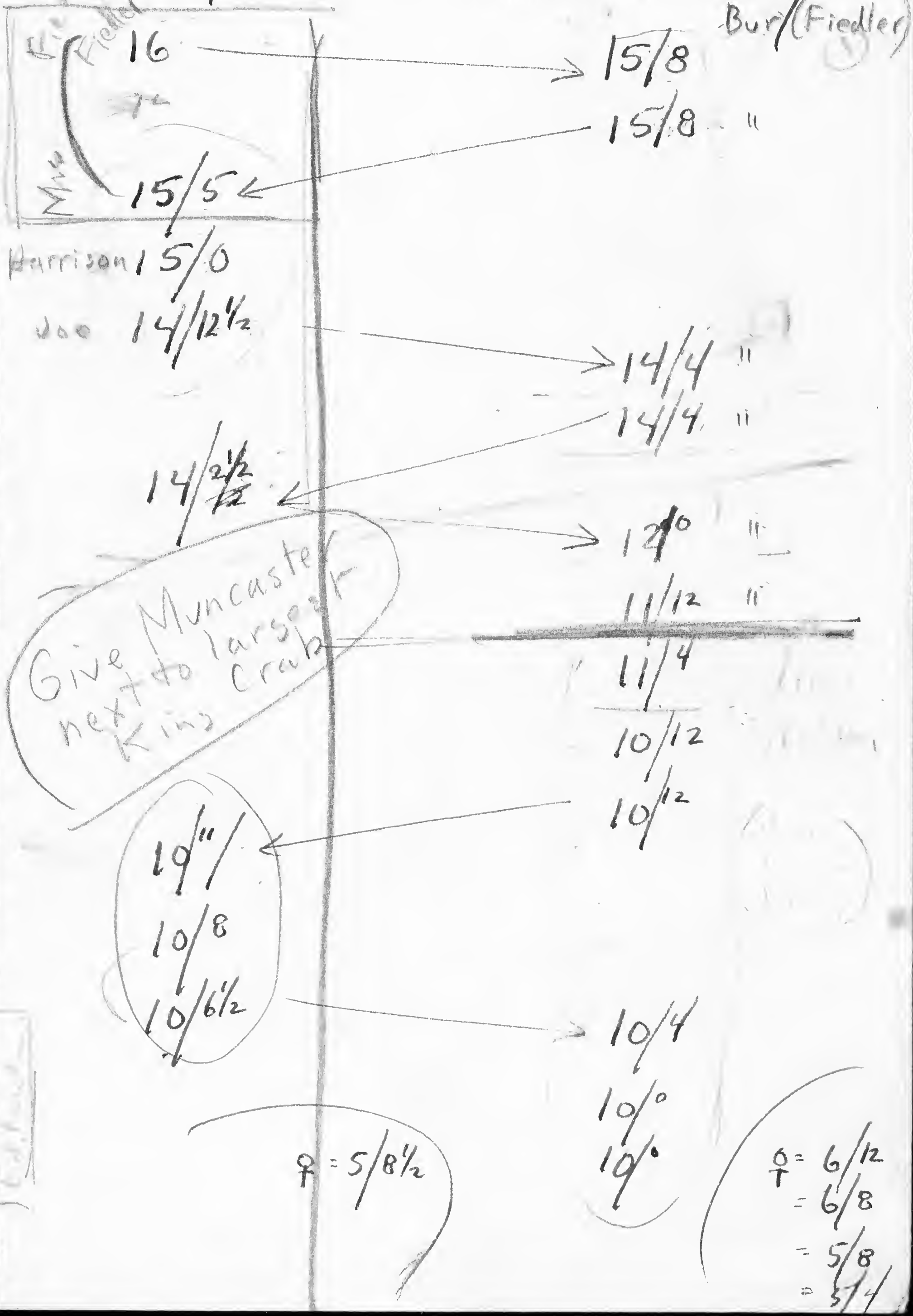
Abnormalities

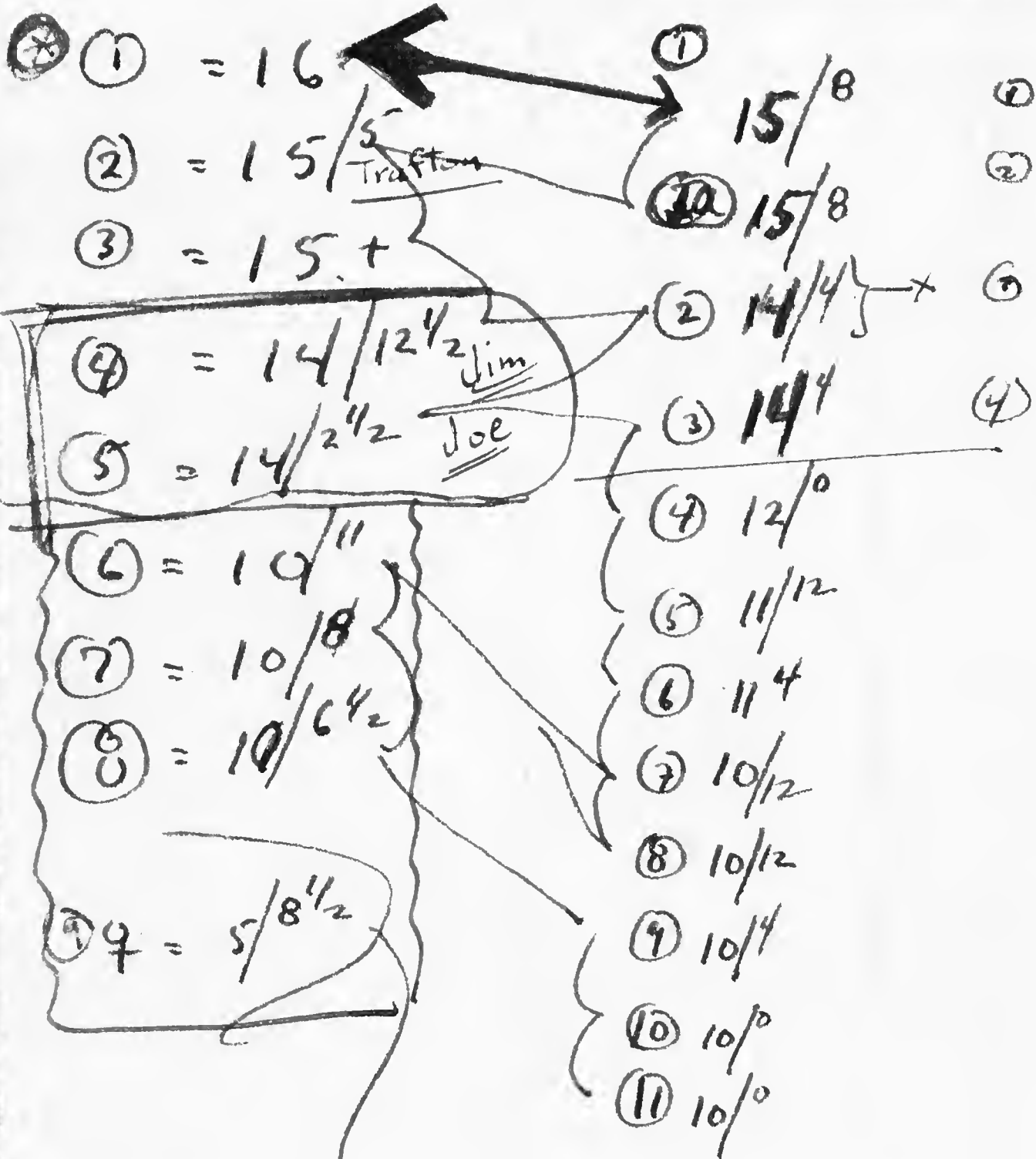
Lgth. 3d
rt. merus
Lgth 3d
1st merus
Length 3rd
merus
1st 1st
3d merus

width
length
Major long
chela
" high
" wide
across
articulat.

Tag No
1
2
3
4
5

In icebox - lbs - Cleaned and dry
Bur/(Fiedler)

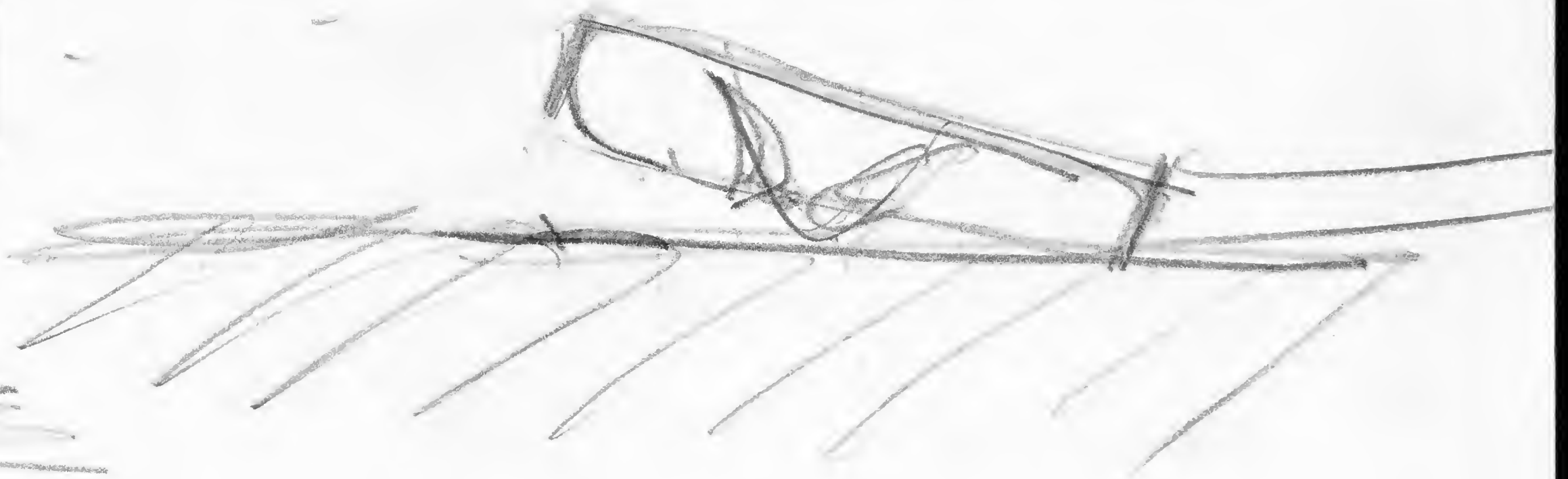
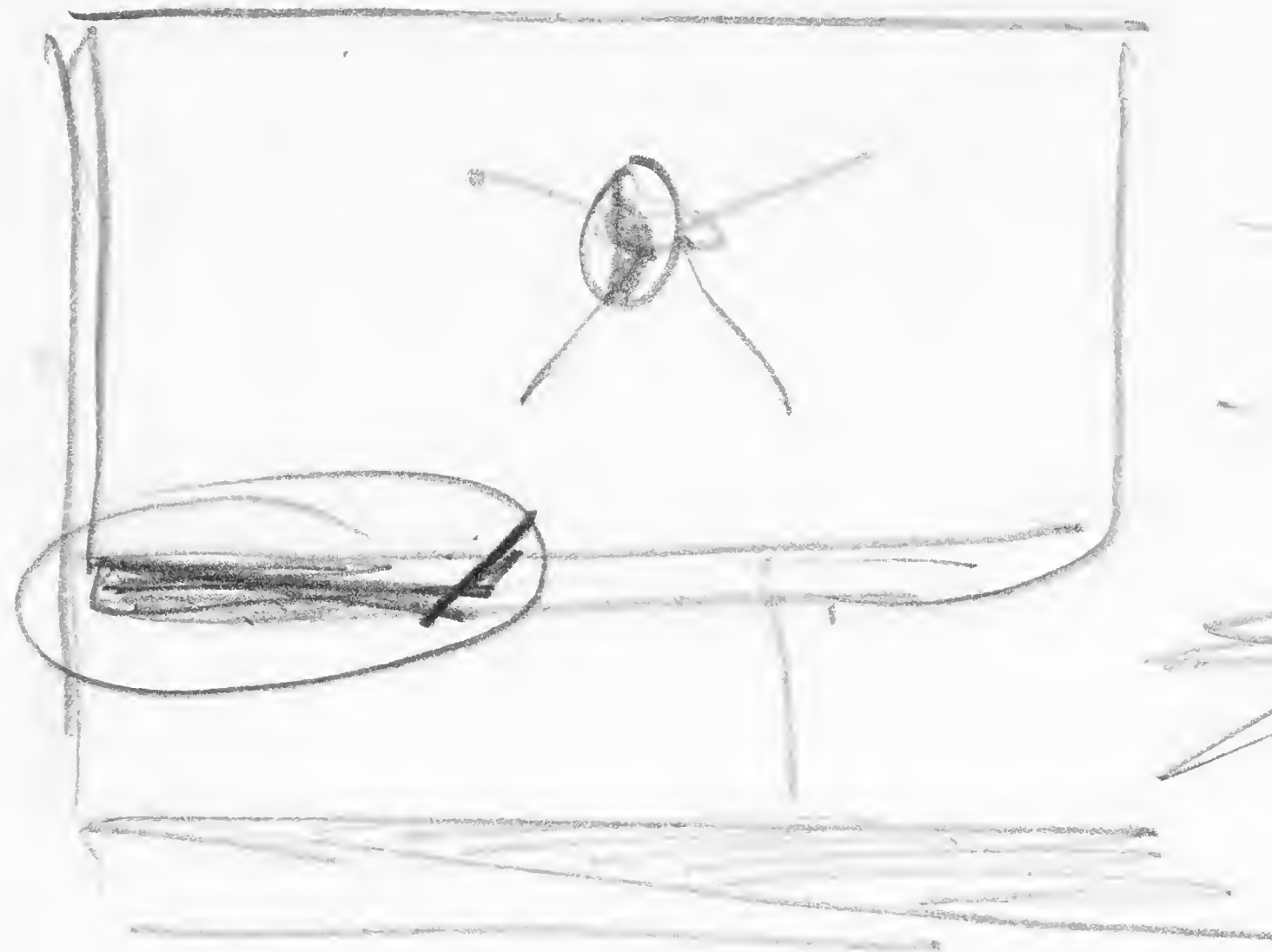




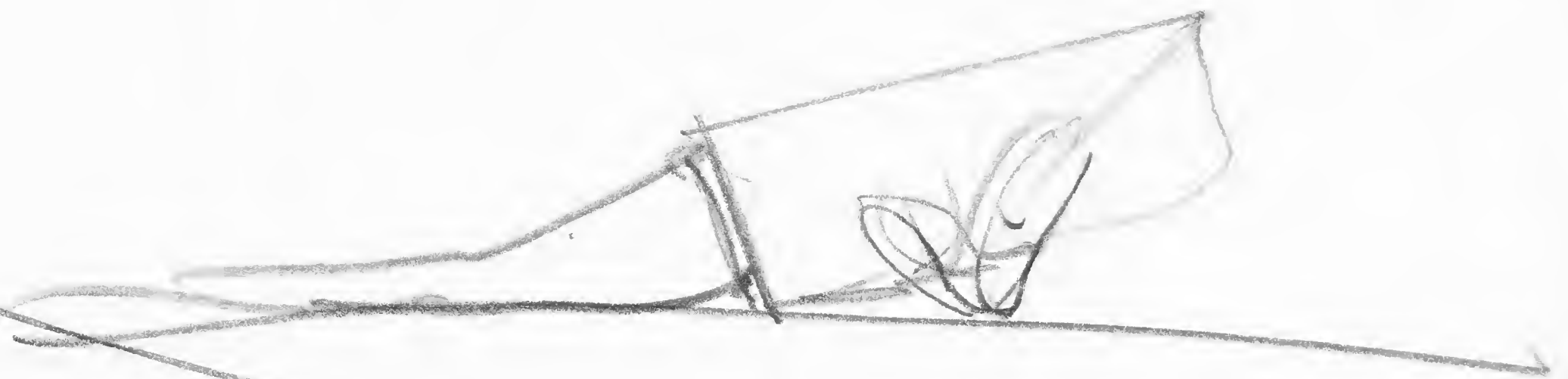
Ed in Ice
 Trafton Boy
 Wesley
 Standing

♀
 I = 6/12
 II = 6/8
 III = 5/8
 IV = 5/4
 ♀

I saw that door was not
fishing right last day we were
out with Shanty



Shanty's
hand has
not yet fished right



Day 10 + 20% = Better diet reg
Avg Air temp Sea Level bet 12.5 + 10°C.
hor. 5 + 2.5°C

Stomach contents } Dec. Jan. Diet.
10 - 15%
June July Aug.
more than 2.5%.

Cloudiness Jan Feb Mar 3-5 > 8%
July Aug Sept. more than 7%

Precipitation mm. for year mean.
1,000 - 1,500 mm.

Surface water temp (Feb) 2-3°C.
(Mar) 4-5-6
(Aug) 10°-9°
(Nov) 5°-4°

Water at 200m = 3-4°C.
400 = 3.4-4

Salinity 33.0 - 32.5
surface

currents are westward along
direction of id chain

Bun. 704 Fed. Rd.

Aug. 27 Sept Seattle in rain Aug. 27.

- 28 Warm sun most all day
- 29 Warm .. my day.
- 30 Rainy-muggy. Passed Bella Bella.
- 31 Rain off + on all day
- Sept. 1 Rain + night
- 2 Fog sun above, clear sun all day at Petersburg
- 3 Rainy misty day, rather dark
- 4 Sun most of time, quite cool
- 5 Completely overcast but warmer than yesterday.
6. Overcast, misty, hard rain in evening + night
7. Good rain, heavy mist, poor visibility, but still excellent day weather. But beginning in forenoon, especially toward noon we began to experience effects of the williwawis often occurring in these parts. Took shells in N.W. light of largest of Bowen Ids
8. By 7:30 wind had gone down to S.E. 2, mod. sea + clear, and bar. up, to 30.40 at 4-8 p.m. for 4 or 5 mi. had choppy head sea, but still not too bad to fish.
- 9 Bright and clear most of forenoon + part of afternoon. By 4 p.m. overcast, S.E. 4, Bar. 30.25. Sea ~~and~~ choppy with rain in late afternoon + night; right on through to past midnight.
10. Better than yesterday, still misty + foggy to near 8. when it cleared up + we had forenoon at least one of best days yet.

Shepherd PR ~~Quincy~~ Co
Post Ashton.

Victor Anderson

Limits of weather conditions
under which one can fish.

Court file

Atlas of Climatic Charts of
the Ocean

Climate of Alaska
Edith M. Silliman

Monthly Weather Rev. Vol. 58
March 1930 pp. 85-103

| Cat # | weight | prob ⁹ | wgt |
|-------|---------|-------------------|---------|
| 8959 | 15 1/2 | 8973 | ♀ 5 3/4 |
| 8968 | 11 1/4 | 8971 | ♀ 5 1/4 |
| 8963 | 12 1/4 | 8972 | ♀ 4 3/4 |
| 8968 | 11 3/4 | 8974 | 6 1/2 |
| 8956 | 14 1/4 | 8975 | 10 3/4 |
| 8961 | ♀ 6 3/4 | | |
| 8965 | ♀ 5 1/4 | | |
| 8964 | 10 | | |
| 8970 | ♀ 5 1/2 | | |
| 8967 | ♀ 5 | | |
| 8960 | 10 3/4 | | |
| 8958 | 15 1/2 | | |
| 8962 | 10 | | |
| 8957 | 10 1/4 | | |
| 8969 | 13 | | |



CONSIGNEE

EXPENSE BILL

Port _____ Date _____
(For Agent's use only)

Address _____ Ship _____ Voy. _____

To Lowe Trading Company Dr.

For transportation Charges and Advanced Charges
on Articles described below

CONSIGNOR From To

| No. of Pkgs. | COMMODITIES | | | Weight or Measurement | Rate | Charges | |
|----------------------------------|-------------|--|--|--------------------------|------|--------------|--|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| RECEIVED PAYMENT FOR THE COMPANY | | | | | | TOTAL TO PAY | |

All claims must be made within 5 days after Steamer's delivery of goods at landing, and be accompanied by this Expense Bill and original Shipping Receipt or B/L.

LOSS AND DAMAGE CLAIMS MUST BE PRESENTED WITHIN 24 HOURS.

Large-plumage red.

Must have some growth on shell
few very little seen, nearly mottled
as least barnacles are very small
a shell is quite clean



Largest barnacle = dia & height

notable to weigh + measure + do
not bite put pencil in bet claws
+ tried finger, so find it to be
that gingerly

Sunday 17 gale while fully set at 3.30
wind rain ~~bow~~, and after supper
very heavy driving rain. p.m.

believe if crabs were carted down
in live wells would do very well +
be source of important, + exclusive
high priced luxury market could
be opened at Belcher or even
Seattle; and reminded of Juan
Fernandez lobster

males differ at once in shape
+ general outline of carapace

Female is rounder

petridium + sand anemone

Hydroid

||

1

+

Bryozoa

Bamboo

||

+

1 or 2 spec.

serpulids + shrimp like tubes

+ ? sand tubes (? worms)

Re Canoe Bay fishing

At this season at least (Sept. 21 -
Oct. 3) crabs too limited in number to
sustain a profitable commercial canning
project such as Sondeley's with a hauler
as expensive to man and run as the
flotilla (average catch all crabs hauled
considered)

Sept 25, 1940,

many flounders, several hundred caught
3 species of which two were taken about
in equal numbers, third had but
few representatives in haul.

Had in ⁽¹²⁾hauy

12.

bilineata

16. Limanda aspera

3. halibut * and ^{amortized} cut of cod. *

Great many Chionoecetes

Oregonia

Anemones galore

some Chrysodromus and

some Buccinum like, hairy shell

Macomas dead in mud haul.

Bottom had great many sea
urchins remains, at least that's what
we get in last screen after washing
through mud.

* Ton of flounder cd. today, last haul of
day; bet. 15 - 2000 lbs of fish, no young
Halibut smallest 14-16 inches; 1 1/2 - 2 lb
two, 30 - 40 lbs. & wt.

2nd abd. white of ♀s ^{ovis} + young
males sticks out way behind ~~low~~
Carapace margin, not as in
adult males, scarcely to be
seen above

Date _____, 194____. Sta. _____ Location _____ (Form E)

1. No.

2. Sex

3. Condition
(hrd. sft. peeler)

4. Weight

5. Length

6. Width

7. Width
abd.

8. Lgth. 3rd
merus.

10. Tag No.

11. Growth
on shell

12. Food in
mouth
parts

13. Stomach
contents

14. Parasites
(gills
also)

15. Weight
total
eggs

16. Eggs
per
unit

long
17. Major chela

18. " high

19. " thick

20.

Re barnacles

Fresher the crabs less apt to barnacle
+ growth to shake off in getting meat
* out + decks (dry) better crabs may
be worse than water kept ones,

* Kept in water died at faster rates
than out on decks. (Very little rain
since rain. It mostly cloudy.)

Water needs to be kept freely
flowing at all times

* But I guess dead barnacles
either way are dead + shake off

Re water getting any available
time day or night that weather
is smooth, therefore search-light
+ lamps for buoy should
positively be available in lieu
of actual water line laid right
out to ship.

How do you account for so
many without any barrels? More
than one yearly move?

Scripps has a report

Abd. runs back at 45°
+ young males also

~~But at $(5)000$~~

Abdomens of ♀ with eggs
last ~~ter~~ segment (actual second)
slopes back at an angle of
 45° / In young of both sexes
young males for also 45°

3 Simand ^{about} 3 flonds.
= 1 ft long.

1 Pede islandicus

Oct. 3
90 lb

45 Pandan

Andromeda

1 huaka 1/2 inch

1 Goldia

1 Selmesse 3 in

1 Melidra

1 Trichostema 1 1/4 long

2 brown litters of kind that from
clumps, about 6 in long

Food of halibut

William F. Thompson in
Rept. Comm. of Fisheries
Prov. Brit. Col. for 1914 [1915]
p. 76-99. "A preliminary report on the life-history of the halibut."

Fish
Crustacea
Cephalopods
Echinoderms } spurring
Annelids }

Coelenterates: Sea anemones, usually fastened to rocks

Echinoderms: Brittle stars, starfish, sea-urchins, and sea cucumbers

Annelida: Sea-hares and Echiuroidea

Brachiopoda: Unknown species of Lamp-shell

Crustacea: Crabs only

Mollusca: Clams and Cephalopods

Vertebrata: Fish (with many fisherman's stories of birds to indicate the capture of divers.)

Fish. Grey cod. (Gadus macrocephalus)

Red cod (Sebastolobus alascanus)

Gadus macrocephalus = (grey cod)

Ammodytes personatus = (sand lance)

Atheresthes stomias = (ghost or long-jaw)

Squalus sucklii = (dogfish)

Hydrolagus collei = (ratfish)

Sebastes alutus = (red cod)

Anoplopoma fimbria = (black cod)

Clupea pallasii = (herring)

Raja { rhina
 { binoculata } = (skate)

Ophiodon elongatus (ling-cod)

Hippoglossus hippoglossus (halibut, principally viscera)

Cyclopterus ventriosus (lump-fish)

Prionisthius macellus

Sebastolobus alascanus
(red cod)

Psychrolutes paradoxus

Malacottus zonurus

Oncorhynchus kisutch
(coho salmon)

Crustacea

Macrura

Crango sp.

Anomura

Pagurus alaskensis (Benedict)

? Pagurus ochotensis (Brandt)

Pagurus canfractus (Benedict)

Pagurus splendescens Owen

Pagurus species

Acantholithodes hispidus Stimpson

Extends range from Vancouver Id. to Kodiak
and depth from 16 to 40 fms.

Lopholithodes mandtii Brandt

Lopholithodes foraminatus Stimpson

Extends range from Victoria, Brit. Col., to Kodiak Id.

Brachyura

Oregonia gracilis Dana

Chorilia longipes Dana

Chionoecetes Janneri Rathbun

Hyas lyratus Dana

Cancer productus Randall

Cancer gibbosulus (de Haan)

Pinnixa species.

Cancer magister
mated May & June
eggs carried to following
spring

one year after mating
larval life complete
first larval year found in June

Bonny Bay Aug-Sept
many soft water larvae

Sept. 27-1940
Caught 2306 Tagged spec.
in crab

Traps may marking crab ground
in Canoe Bay is set in 10 fms.

Crabs measured on Sept. 27-1940 were
weighed on old cannery (N.6) balance
Good scales used day Fred measured
Sept. 27 best hauling in 40 fms.

This year fished out next year
crop of abas

Sunday 22 Grand clear
occ. little rain or sunny day

Warm + stormy like

Capt. went dredging with
out giving me 2 min notice

Was struck a murex here
a female + young few large

But started on back of
devil fish, (cod fish) and
in quiet night down

looked like down
had to put about 8-10
large Pyramthoda
ochter.
~~on~~

young crab
fishier than
large

may not
dirt into
lots of broken
water.

- Sep. 28
 And to believe big fellows of 11 lbs
 with perfect clean carapace have not
 molted since a year ago or is
 it just month ago (Act #443)
 largest barnacle + Bay an. cana =
 | 0.202 | | 0.168 |
 Had a large B on night 2nd leg = 0.283


Reg. Pan. vessel could a curiously
 get things as begun + end it has
 should also have fullness

~~only slightly~~
 largest shallow traps next year
 for measuring crabs

deeper a deeper hauls only 3's
 females + small peduncles at
 in the hauls, never get
 50/50 percentage in hauls
 at the time of year

Shide a double line to column
 it from E.
 Print in diagonal prints
 + line for or. ounces

Date , 1944. Sta. Location (Form E)

| | | | | | | |
|------------------------------------|---|--|--|--|--|--|
| 1. No. | 719 | | | | | |
| 2. Sex | ♂ | | | | | |
| 3. Condition (hrd. sft. peeler) | med | | | | | |
| 4. Weight | | | | | | |
| 5. Length | 7.873 | | | | | |
| 6. Width | 9.246 | | | | | |
| 7. Width abd. | | | | | | |
| 8. Lgth. 3rd merus. | 7.143 | | | | | |
| 9. | | | | | | |
| 10. Tag No. | | | | | | |
| 11. Growth on shell |  | | | | | |
| 12. Food in mouth parts | Large crabs hermit shrimps gills nests | | | | | |
| 13. Stomach contents | | | | | | |
| 14. Parasites (gills also) | | | | | | |
| 15. Weight total eggs | | | | | | |
| 16. Eggs per unit | | | | | | |
| 17. Major chela long | 5.154 | | | | | |
| 18. " high | 2.873 | | | | | |
| 19. " thick | 2.018 | | | | | |
| 20. | 1.718 | | | | | |

Date _____, 194 . Sta. _____ Location _____ (Form E)

| | (Ia) | (I) | (7) | (3) | (II) | (IV) |
|------------------------------------|---------------------------------|-------------------------|------------------|-------------------------|-------------------------|---------------------------------|
| 1. No. | 8958 #865 or #860 | 8961 #871 | 8975 | 8963 #868 | 8970 #876 | 8971 ?#874 or 875 |
| 2. Sex | ♂ | ♀ | ♂ | ♂ | ♀ | ♀ |
| 3. Condition (hrd. sft. peeler) | 15/8 | | #5 | | | |
| 4. Weight | 7.1 | 6/12 | 10/12 | 12/4 | 5/8 | 5/4 |
| 5. Length | 7.670 | 6.380 | 6.888 | 7.230 | 5.847 | 5.839 |
| 6. Width | 9.239 | 7.090 | 8.268 | 8.953 | 6.599 | 6.486 |
| 7. Width abd. | | | | | | |
| 8. Lgth. 3rd merus. | | | | | | |
| 10. Tag No. | | | | | | |
| 11. Growth on shell | | | | | | |
| 12. Food in mouth parts | | | | | | |
| 13. Stomach contents | | | | | | |
| 14. Parasites (gills also) | | | | | | |
| 15. Weight total eggs | | | | | | |
| 16. Eggs per unit | | | | | | |
| 17. Major chela long | 5.054 | 3.534 | 4.598 | 4.731 | 3.341 | 3.306 |
| 18. " high | | | | | | |
| 19. " thick | | | | | | |
| 20. | | | | | | |

Date _____, 194____. Sta. _____ Location _____ (Form E)

| | (8) | (9) | (4) | (10) | (11) | (12) |
|------------------------------------|-------|---------------|----------------|---------------|-------|---------------|
| 1. No. | 8960 | 8957 # 862 | 8969 # 8969 | 8962 # 861 | 8972 | 8967 # 873 |
| 2. Sex | ♂ | ♂ | ♂ | ♂ | ♀ | ♀ |
| 3. Condition (hrd. sft. peeler) | | | (4) | | | |
| 4. Weight | 10/12 | 10/4 | 12/00 | 10/00 | 4/12 | 5/0 |
| 5. Length | 6.033 | 6.597 | 6.811 | 6.036 | 5.824 | 5.713 |
| 6. Width | 8.185 | 8.182 | 8.585 | 8.005 | 6.565 | 6.287 |
| 7. Width abd. | | | | | | |
| 8. Lgth. 3rd merus. | | | | | | |
| 10. Tag No. | | | | | | |
| 11. Growth on shell | | | | | | |
| 12. Food in mouth parts | | | | | | |
| 13. Stomach contents | | | | | | |
| 14. Parasites (gills also) | | | | | | |
| 15. Weight total eggs | | | | | | |
| 16. Eggs per unit | | | | | | |
| 17. Major chela long | 4.440 | 4.496 | 4.483 | 4.455 | 4.455 | 4.455 |
| 18. " high | | | | | | |
| 19. " thick | | | | | | |
| 20. | | | | | | |

Date _____, 194 . Sta. _____ Location _____ (Form E)

| | (6) | (11) | (1) | (11a) | (II) | (5) | (2) |
|------------------------------------|--------------|-------------------|--------------|--------------|--------------|--------------|-----|
| 1. No. | 8966 #867 | 8964 | 8959 #857 | 8974 #872 | 8968 #870 | 8956 #866 | |
| 2. Sex | ♂ | ♂ | ♂ | ♀ | ♂ | ♂ | |
| 3. Condition (hrd. sft. peeler) | (6) | | | | | | |
| 4. Weight | 11/4 | 10/0 | 15/8 | 6/8 | 11/12 | 14/4 | |
| 5. Length | 6.942 | 6.464 | 7.741 | 6.351 | 7.022 | 7.468 | |
| 6. Width | 8.640 | 8.016 | 9.986 | 7.089 | 8.586 | 9.788 | |
| 7. Width abd. | | | | | | | |
| 8. Lgth. 3rd merus. | | | | | | | |
| 10. Tag No. | | | | | | | |
| 11. Growth on shell | ○ | do 3 or more B | | | | | |
| 12. Food in mouth parts | | | | | | | |
| 13. Stomach contents | | | | | | | |
| 14. Parasites (gills also) | | | | | | | |
| 15. Weight total eggs | | | | | | | |
| 16. Eggs per unit | | | | | | | |
| 17. Major chela long | 4.771 | 4.267 | 5.253 | 3.438 | 5.150 | 5.199 | |
| 18. " high | | | | | | | |
| 19. " thick | | | | | | | |
| 20. | | | | | | | |

migrations important
come into 15 f. to mouth
35 fms Jaks fish.

St. Lawrence Id + July 1937

Jaks may have spawning
Blue mud bottom.

Take as deep as 800 fms.

West side of Daniels

Davidson Bay

East side Kulibini

feed a ~~crabs~~ / only
small ones taken

Sep. 1st. 1904

Harvested a dead
less black?

Sand flies in the
A. —

The round white ^{diss.} ~~the~~
Bryozoan measured
is Lichenopora hispidula
in most cases
may be verrucaria
in some.

of the other bryozoan
occasionally a ~~hard~~
one is mentioned; this
species is Sigellia
arctica and

Hippothoa hyalina

Send E Vanhane Oct 7/40

① #14-40 1 clear 4 sand covered
ascidians.

② #17-40 3-4 clear about 6
sand covered
ascidians

white with margins
pinkish



dyed
brown

granules
is light
grayish
greenish

greenish



bluish

irides
cent

white

plumbeous
x china blue

darkly striped with
lower brown & white

proportion = lower half
of after surface narrow
white above e. b



dark brown

above
brach
white to
lower margin

after part olive buff to
olive yellow

Sept. 30/40

Sta 49

Oct. 7/40

DB C. McLean Fraser

- ① From gill chamber of cat #480.
Sept. 27, 1940 3 little half
inch "handles" of
hydroids
- ② From snails measured Sept. 24, 1940
= several tufts of hydroids.
- ③ #14-40 Sept. 18, 1940
= several tufts hydroids
- ④ #17-40 Sept. 19, 1940
= several tufts of hydroids.

Sent Miss Hyman

Oct. 7/40

Flatworms from Haul # 16-40
(~~very~~ several macerated) Sept. 1940 3+

| | | | |
|-------------|----------------|---|------------------------|
| Haul. 14-40 | Sept. 18-1940 | 1 | |
| " 51-40 | Oct. 2-1940 | 1 | |
| 49-40 | Sept. 30-1940 | 6 | } Two lots same ho. |
| 49-40 | Sept. 30, 1940 | 5 | |

Sent. to R.C. Osborn.
5 Vials Bryozoa

(1) = Indoleyr cut Brch

(2) = Crabs measured

(3) = #14 ?

(4) = #17 ?

(5) = were the four fire vials

Card of five groups posted on
have kept by card.

Sent to Miss Hartman Oct. 7/40

- ① #17-40 Sept. 19, 1940
various worms for
analysis
- ② #14-40 3 pcs sand worm tubes
2 bundles (were originally
fused together with Serbellid tubes)
- ③ # From Bodeleyo crab trap
1 vial calcareous tube building worms
- ④ #14-40 second vial 3-4 sand tube
building worms + tubes.

Sept. 17-1940

Orig ♀ of Sept. 17-1940 Sta. 13-40

| | | |
|--------------------------|----------------|---------------|
| Flesh, pleopods + eggs = | 413 gr | 14.800g |
| Flesh and pleopods = | <u>157 gr.</u> | <u>5.800g</u> |

| | | |
|----------------|----------------|---------------|
| Total egg mass | <u>256 gr.</u> | <u>9.000g</u> |
|----------------|----------------|---------------|

| | | |
|---|----------------|---------------|
| Selected sample of ^{+ dish} eggs = | 155 gr. | 5.450g |
| Dish + tag = | <u>140 gr.</u> | <u>5.100g</u> |
| | <u>15 gr.</u> | <u>.450g</u> |

Sept. 21, 1940

♀ A

19-40

| | gms. | Ounces |
|---------------------------|------------|----------|
| Weight Eggs + (Pan + Bag) | 392 | 14 |
| Weight of Pan + Bag | <u>139</u> | <u>5</u> |
| Weight of Entire Egg Mass | 253 gms | 9 ounces |

| | | |
|--|------------|------------|
| Weight Eggs to be counted (+ Pan + Bag) | 148 | 5.3 |
| Weight of Pan + Bag | <u>139</u> | <u>5</u> |
| Weight of Eggs put in ROH to be counted | 9 gms | 0.3 ounces |

♀ B

| | | |
|---------------------------|------------|-------------|
| Weight Eggs + (Pan + Bag) | 427 | 16.00 |
| Weight of Pan + Bag | <u>140</u> | <u>5.05</u> |
| Weight of Entire Egg Mass | 287 gms. | 10.95 g |

| | | |
|--|------------|-------------|
| Weight of Eggs to be counted (+ Pan + Bag) | 148 | 5.25 |
| Weight of Pan + Bag | <u>140</u> | <u>5.05</u> |
| Weight of Eggs put in ROH to be counted | 8 gms. | 0.2 oz. |

Sept. 29, 1940

46-40

Canoe Bay

| | | gms | ounces |
|------------|---|-------|--------|
| Crab # 594 | Weight total eggs | 177.0 | 6.3 |
| | Weight of eggs to be counted (in Baunin's) | 9.0 | 0.4 |

| | | | |
|------------|---------------------------------------|-------|------|
| Crab # 595 | Wgt. total eggs | 178.0 | 6.32 |
| | Wgt. eggs to be counted (Baunin's) | 10.0 | 0.4 |

| | | | |
|------------|---------------------------------------|-------|------|
| Crab # 596 | Wgt total eggs | 130.0 | 4.67 |
| | Wgt. eggs to be counted (Baunin's) | 10.0 | 0.4 |

(Amphipods were taken from egg masses)

Sept. 30, 1940

46-40

Cave Bay

Crab # 598

wgt. of total eggs

gm

175

oz.

6.20

wgt. to be counted
(ROH)

7

0.18

Crab # 599

total wgt. of Eggs

155

5.50

wgt. Eggs to
be counted
(ROH)

10

0.32

Sept. 30, 1940

46-40

Cuave Bay

| | | gms | ounces |
|------------|---------------------------------------|-----|--------|
| Crab # 600 | Wgt. of total eggs | 206 | 7.35 |
| | Wgt. eggs to be counted (Bourin's) | 12 | 0.4 |

| | | | |
|------------|---------------------------------------|----|------|
| Crab # 597 | Wgt. of total eggs | 52 | 1.82 |
| | Wgt. eggs to be counted (Bourin's) | 13 | 0.46 |

(This crab had comparatively few eggs & their color was a darker rust brown. Maybe she had shed some already?)

| | | | |
|------------|---------------------------------------|-----|------|
| Crab # 602 | Wgt. total eggs | 205 | 7.30 |
| | Wgt. eggs to be counted (Bourin's) | 8 | 0.19 |

| | | | |
|------------|------------------------------------|-----|------|
| Crab # 603 | Wgt. total eggs | 163 | 5.80 |
| | Wgt. eggs to be counted (Rollt) | 10 | 0.35 |

| | | | |
|------------|---------------------------------------|-----|------|
| Crab # 601 | Wgt total eggs | 135 | 4.80 |
| | Wgt. eggs to be counted (Bourin's) | 12 | 0.40 |

9/30/40 #49-40

Canoe Bay

(Barby
Arms)

| | | |
|-------|---|----------|
| S8917 | — | 1.8 oz. |
| S8918 | — | 1.0 oz. |
| S8919 | — | 1.42 oz. |
| S8920 | — | 1.3 oz. |
| S8932 | — | 1.3 oz. |
| S8933 | — | 1.22 oz. |
| S8934 | — | 1.70 oz. |
| S8935 | — | 0.85 oz. |
| S8936 | — | 1.92 oz. |
| S8937 | — | 1.10 oz. |
| S8938 | — | 1.62 oz. |
| S8939 | — | 1.40 oz. |
| S8940 | — | 1.10 oz. |
| S8941 | — | 1.80 oz. |
| S8942 | — | 1.65 oz. |
| S8943 | — | 1.10 oz. |
| S8944 | — | 1.50 oz. |
| S8945 | — | 1.08 oz. |

Porpoise was taken
90 miles NW of Cape Serenauin
Bristol Bay July 17 1940

Latitude $57^{\circ}47'$
Longitude $161^{\circ}20'$

Tooth brush, accordeon
fellows with 1 of the kind
had Capt. Anderson by the
one buy 6 coat buttons
but 2 in Toilex have
are left for myself
now none left for self.

2 pr. shoes one is a bed
pr.

has oil skin, ask for by
rain coat.

I ~~put~~ Bur. to provide like
lunch, I find it used.

ask for oil when I give
some small portion for 2
pr. shoes

Capt. Nason made this a.m.
after tooth brush last night

Shum and pk.
South branches:
Purcell Pass

157371

Dr. Waldo L. Schmitt

Amphipods identified by Mr. C. R. Shoemaker

No. 46. 2 vials. Sept. 30, 1940, from egg masses of
Paralithodes camtschatica.

Ischyrocerus commensalis Chevreux Many

No. 143. 1 vial. Sept. 22, 1940.

Ischyrocerus commensalis Chevreux 1

No. 477. 1 vial. Sept. 27, 1940.

Ischyrocerus commensalis Chevreux Many
Orchomenella pinguis (Boeck) 1

No. 480. Sept. 27, 1940--from gills.

Ischyrocerus commensalis Chevreux Many

No. 483. Sept. 27, 1940. From gill chamber

Ischyrocerus commensalis Chev. Many

No. ? Sept. 24, 1940 (from crab measured)

Ischyrocerus commensalis Chevreux 3

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Dr. Waldo L. Schmitt
Alaskan trip

Marine annelids identified by Miss Hartman

No. 14-40. Sept. 18, 1940. Canoe Bay, Alaska. Lot 1.

Idanthyrus armatus Kinberg, subsp. pennarmatus MS -
Vermiliopsis sp.
Juvenile sabellid, probably Schizobranchia sp.

No. 14-40. Lot 2.

Idanthyrus armatus subsp. pennarmatus MS (4 spec.)
Pseudopotamilla intermedia Moore
Lagisca, juvenile
Spirorbis, probably spirillum Linn.

No. 17-40. Sept. 19, 1940.

Idanthyrus armatus, subsp. pennarmatus MS
Potamilla neglecta (Sars)
Pseudopotamilla intermedia Moore
Sabella crassicornis Sars
Vermiliopsis sp.
Lagisca rarispina (Sars)
Crucigera zygophora Johnson

From Tondeleyo Crab Trap, Canoe Bay, Alaska. Sept. 23, 1940.

Crucigera irregularis Bush
Vermiliopsis sp.

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Dr. Waldo L. Schmitt
Alaskan trip

List of ascidians identified by Dr. Van Name

No. 14-40. Sept. 18, 1940. Canoe Bay, Alaska. From Paralithodes camtschatica.

Molgula retortiformis Verrill, 1871. (Eggs in peribranchial cavity.)

No. 14-40. Data as above.

Molgula retortiformis Verrill 1871. NOTE: Such a smooth specimen is unusual.

No. 17-40. Sept. 19, 1940. Canoe Bay, Alaska.
From Paralithodes camtschatica.

Ascidia callosa Stimpson 1852.

No. 17. Data as above.

Molgula retortiformis Verrill, 1871

No. 17. Data as above.

Molgula retortiformis Verrill 1871. (Eggs in peribranchial cavity.)

No. 17. Data as above.

Molgula retortiformis Verrill, 1871. (Eggs in peribranchial cavity.)

157371

Dr. Waldo L. Schmitt
Alaskan Trip

Flatworms identified by Miss Hyman

No. 16-40. Sept. 19, 1940.

Notoplana sanjuania Freeman 1933

1 vial

No. 14-40. Sept. 18, 1940

Notoplana sanjuania Freeman 1933

1 vial

No. 49-40. Sept. 30, 1940

Notoplana sanjuania Freeman 1933

2 vials

No. 51-40. Oct. 2, 1940

Notoplana sanjuania Freeman 1933

1 vial

SMITHSONIAN INSTITUTION
UNITED STATES NATIONAL MUSEUM
WASHINGTON, D. C.

November 6, 1940

Dear Dr. Schmitt:

The amphipods and mollusks arrived in good shape. I have identified the amphipods and the mollusks have been sent to Dr. Bartsch with the request that the names be furnished as soon as possible.

There are only two species of amphipods. All except one specimen are Ischyrocerus commensalis Chevreux. This species was taken by the Cheticamp Expedition in the Gulf of St. Lawrence, which was the second record of its occurrence. Your record makes the third. Chevreux's specimens were taken off St. John's, Newfoundland, in 150 m., and were found on a starfish (probably Crossaster popposus Bruz.). The Cheticamp specimens were taken free, not commensal. It is nice to have your fine series from the west coast.

A single specimen of Orchomenella pinguis (Boeck) was taken from the gills of the crab No. 477.

The specimens which you sent to Van Name, Miss Hyman, and Miss Hartman have been sent to us identified and in case you have not received their identifications Miss McCain is sending their reports to you. Hope you receive all these identifications in time to be of use.

We are glad to learn that you are having such a successful "outing" as far as specimens are concerned. It is too bad that you can get no news of what is going on in this tired, sick old world, but I know you will jump for joy when you hear that your friend will be in the White House for another four years, or perhaps eight, or perhaps twelve, or ad infinitum.

Cornwall's initials are I. E., and he is now at Cliffside P.O., Vancouver Island, B. C., Canada.

Kelly went to the hospital today for his operation. He will probably be away at least six weeks. Trembly has promised to give us a substitute.

With best wishes,

Yours,

Clarence

Total dish + eggs
14.80 oz
413 gms

sample eggs

5.45 oz
155 gms

dish + Plastick

5.80 oz
157. gms

$$9 = 3.543\overline{18}$$

$$8 = 3.14\overline{96}$$

$$\begin{array}{r} 3.937 \\ 196 \\ \hline 4.133 \end{array}$$

width of

smallest orig $\frac{0}{ts}$

$$= 4.46\overline{41}$$

width

#129

$$4.84\overline{41}$$

#109

$$4.51\overline{0}$$

Our
smallest
females =
Had
no eggs

#107 ♀

$$4.27\overline{1} = \text{no eggs}$$

#127 ♀

$$3.77\overline{5} = \text{no eggs}$$

165

69

Helene

Amun

Mc Cain for acc. no.

(over)

Photod
of Platyfish

= 5.308 incho

Largest NA = 7.145 incho

fms.

Sta.

Phot note

① + cantschatica

6.24/6 wide

Institution.

Smithsonian

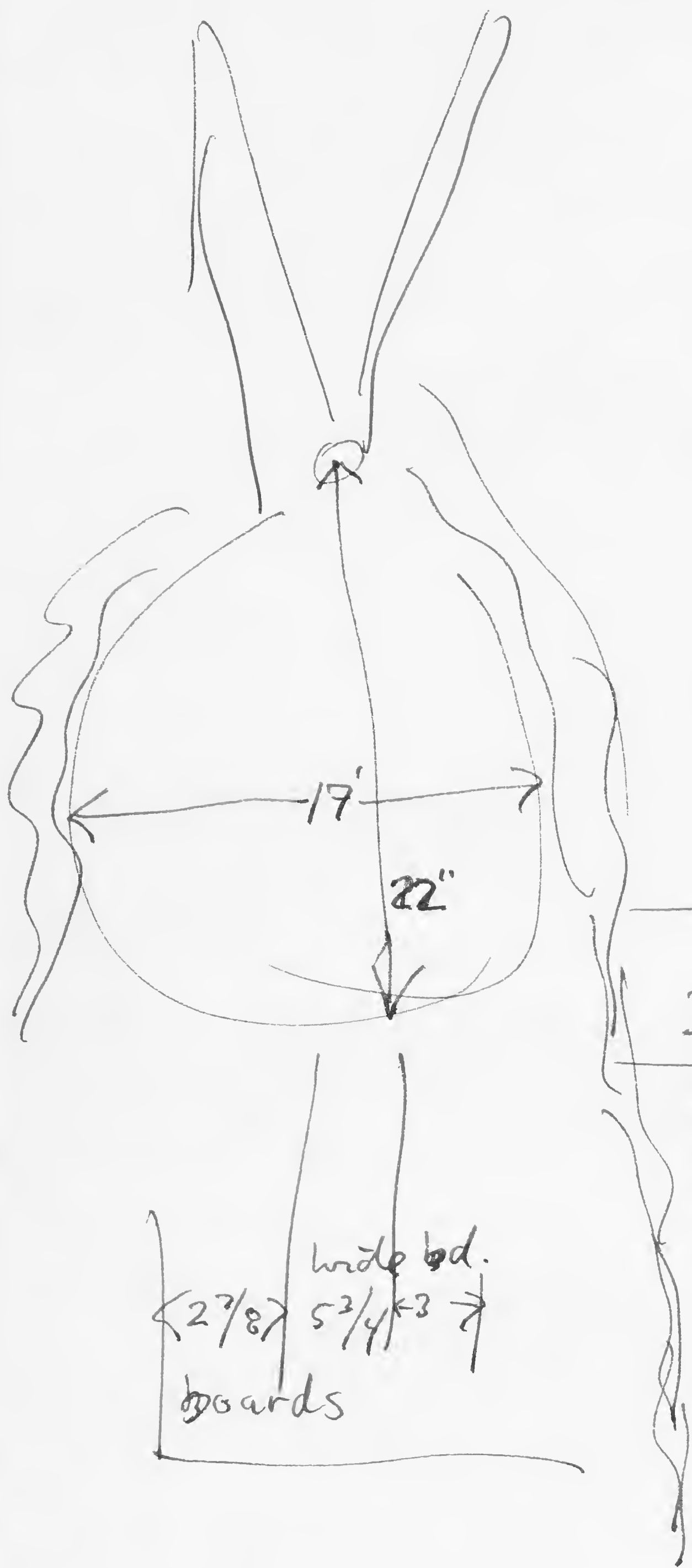
wide plants 5 + 3/4 in wide
5 2/4 in wide

Bur. of Fisheries.

U. S. Nat. Mus.

0 Augus.

Nov. 8/1940



39 + 14" in. for mouth

4/3

Camtschatica

Can reproduce at
100 mm in width
@ 4 inches

depth

area middle &
bottom layers
~~of~~ ancient bottom
layers

18-40 fms

early stage (40mm wide)
in 20-30 fms.

150 mm or less
40 fms or less

adults (over 150 mm)

15-100 fms

Spring and summer, gale
above 150 mm ^{6 inches} are in shallow
water / in autumn & winter
in deep water.

June to August migrate
or feed.

Landfall April 6
early May
20-30 fms (3-7 days)

molts.

Eggs spawn once a year.
Carried for spring in which
laid till next spring
(rarely spawn in 2 yr)

70 - 270,000 eggs

Hatch March to early May
at Kaituma Lagoon

of ancient larvae last 20

Sam
Cash
Robbie
Whit
H. Speer

Olga Bay (number of abnormalities)

771 complete
reversal 4.960
orig 7. wide

Olga Bay 2 finished crabs.

720 . orig 7 Rd. Leng 5.944
wide 6.612

finished cr.
S. 8953

3d measurement 4.794
major data. long 3.328
high 1.668
width 1.163
across ant. 1.077

721
S. 8952

Sta. #98-40 Oct. 31/40

Spines of *Platypus*? more
needlelike and sharper per se
than canthosaticus

1

14

3

11

1

meas. given
in each
case in
this sheet
= width.

#160 orig ♀
5.643

380 orig ♀
5.678

559 ♂ 8.227

604 ♂ (7.738)
(raised
circled)

625 ♂ 6.165

left. missing
right very small
looks like
acrossul cone

#706 ♂ 6.152
revised

Carare Bay

#473 ♂ 7.378 lif. raised

534 ♂ 7.895 slight lif

606 ♂ 4.120 quite lif

635 ♂ 7.093 lif.

650 ♂ 7.362 good lif.

665 ♂ 7.126 jux

671 ♂ 8.644 slight.

#680 ♂ oct. 3d. -40

8 lb. 10 oz. long 6.312

wide 7.484

Sta 51-40 3d mem. 6.198

dactyl raised

Photo (Sta. 51-40)

681 ♂ oct. 3d. -40

7 lb. 11 oz. long 6.224

wide 7.470

3d mem. 5.879

#693 ♂ 3 lb. 12 oz. long

oct. 4.711 wide 5.590

3-40 3d mem. 4.350

came B. best lif. yet.

#48 } tagged
#103 } erant
#118 } recovered
#537

Bifurcate not spec.

#128 bifurcate not
orig like little males
= 5.285 wide =

#135 orig ♀ 5.245 wide

138 } 5.669
bifurcate juxtaposed

148 ♂ very bifurcate 5.426

163 orig. ♀ jux. 5.701

177 ♂ 6.540 jux.

232 ♂ 4.146 completely

248 ♂ 6.042 slight

250 orig ♀ 5.700 lif.

256 " " 5.510 def

260 " " 7.579 lif.

262 6.993 ♂ very def.

269 4.903 orig. slight

276 7.544 ♂

280 orig ♀ 5.187 jux

350 or. ♀ very def. lif.

354 ♂ 8.449 lif.

389 orig ♀ 4.580 slight. lif

396 ♂ 6.490 widely bifur.

not raised

404 ♂ 6.603 jux

463 ♂ eye not in middle of

back photo 10 lb. 6.463 long 7.935 wide

Shelby St. Spec
Nov. 15 Sh 127

857 ♂ ^{sta 127} 9.800 wide ^{not. M} small bifurcate
880 ♂ ^{ST. 137} 9.001 ^{C. Naksak} slightly bifurcate

Recently moulted ~~new~~ ^{new} in house
Crab # 679 ♂ 2 yr. 9 lb. 7 oz
Long 7.113; wide 8.592; 3^d merus. 6.893
ms growth on shell
Sutural chela, long 4.662; high 2.508;
thick 1.860; across articulation 1.539

Recently moulted crab sent by ~~Weymouth~~
678 ♂ 2 yr. 8 lb. 4 oz.
Long 6.999; wide 8.858; 3^d merus 7.290
Sutural chela, long 4.663; high 2.412;
thick 1.786; across articulation 1.510

~~Off Elm~~

Alphonse

Anacortes

Brazos

Brag

Crabs
Ygulator
hand
glaze

Cothier

Snaff
Abner of Prins in it

Offer up large bullock
that may be used for food
see what they eat

Also cod & any other
fish that may be suspected
of, or capable of eating
young king crabs.

Save any remaining off king
crabs found, ~~as~~ other crabs
if remaining ~~and~~ appear to
be in sufficiently good condition for
herminal identification

Measurements of barnacles taken from
Tondeley crab-trap frame Sept. 24, 1940
(had been set bet. Mid August and Sept. 3, 1938) ∴ largest should
be about 2 yrs old

| | | |
|----|---------|----------------------------|
| #1 | largest | 0.647 x 0.704 x 0.401 high |
| #2 | next " | 0.471 |
| #3 | third " | 0.452 |

200 tabs aspirin

2 bats oacana

Aspirin 200

Boric acid

Epsom salts

bandage 1 large
sterilized compress

Call emed he

Potassium Bromide

Physic pills

Sodium Salicylate

catadin

1 bottle 100 Brown Glycyrrhiza
anhydrous
Boric acid
Zinc oxide
Cinchon
O.D. mass

1. doz 19c hand and
pills in a carton

Over night
Large carton = 1 qt.
2 (305) Apex Fever Therapy
2 white ammoniated mercury

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEPARTMENT OF COMMERCE
BUREAU OF FISHERIES

2 (1 lb lbs) rectif salicylate

2/3 (1 lb) bot of castor oil

1/2 of 1 lb bot Sigmol

5 2 inch bandages 10 yds each

2 one ring gauge
2 one cotton

2 (1 lb) lbs Symp Coallan
= Coranyl

Alcohol
Ethyl morphine hydrochloride
Sine Euphorbia Piluli

fea
Symp wild lettuce

Squid

Cascarin 8 grs

Menthol

dose 1 tea spoon full 4 times a day

Tooth ach (primatens relief)
mckenzie

Epom salt 16 oz

Boric acid crystals 4 oz

Spirit of camphor, 2 leas

Handy tape (also band aid
a few)

Acute linic oxide compound
#1 Sily 100 each 3 lbs

Zone ointment 3 tubes

Dr. Ambler compound pills 3 bottles 100 each

Cascarin 1/4 gr. Alim 1/4 gr. Hydrolyte

1/6 gr. Ext belladonna 1/8 gr. 8 Hydrolyte

1/60 Oleocerin Grs 1/16 gr. 1 or 2 mgls
a day

Alim 2 lbs 100 each

Cathart - pills 100 Calomel
pills 1/2 pills

Soda mint Symp 100

501 B

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEPARTMENT OF COMMERCE
BUREAU OF FISHERIES

Dunginess Crabs

is often for attracting dunginess crabs.

piece sig head in mud placed in fresh (empty)
clam shell. recently cleaned

small like Melanoglossids?

Jap methods of fishing king crabs.

- ① put out in motor sampans
- ② gathered up in "trawlers" over rollers. Whole miles at times
- ③ nets carried back to mother ship in heaps. all these untangled, & piles of nets mended
- ④ & put in order ready for use dropped back as sampans which put them out again

Sort of continuous process.

? This method accounts (?) for dead crabs & yellow meat.

a Sept in nets too long

b. Crushed over rollers or

c. Broken in removing from net.

d. Also destroys young crabs that might be returned to sea to grow up.

Northpole with Anderson

1931

net across bow, for side to side over rollers. Dropped crabs in hole in deck, in bow of boat, for gill nets.

King Crab notes

Oct. 10 Crabs for 20-30 fms seemed
lively

Oct. 10 2nd haul of day, 25 fms. deep and
finding large crab due to drift plan
of attacking Bay. was surprised that with
mud would carry king crabs.

Oct. 11 Chironomids - lots of them in Senard Rkr.
seem to be a sure indication of king crab
ground than anything else, as for example
the ^{lar} gill net (by helms in Carve Bay).

Oct. 11 1st crab weighed $14\frac{1}{2}$ lbs. } used old
2nd " " 12 lbs. } scales just
ret under.

Oct. 25 Bait for traps, salmon or other
fish heads. Drapton believes
from Bering Sea & Carve Bay
experiences that crabs follow
the salmon; got dead spent salmon
(long dead dried?) in net in Carve Bay.

(X) Off time should be fished before
ad during salmon season.
Coming in with salmon perhaps explains
presence in the Rkr. vicinity in July and Aug.

Montally
Of crabs taken a last few days
in Camve Bay.

— caught

— canned

— died

{ 20 or 25
each hundred
died.
were a deck
from — to —

Mortality. 6 crabs left out in the
for 24 hrs. still had "gill trailers",
scaphognathites, functioning though
feebly, were alive, while _____ crabs
of second half gill net ^{one or two of}
(no. = dead ones that Joe ^{these were placed}
could not see ^{in water but did}
died over night in the two tanks ^{not see able to revive}
approx - - - x - feet in which they
were placed even though the water was
changed several times.

^{of the - - - came at Alhuts.}
(date) At Olga Bay - crabs, though
crowded in a ^{standards} x day - x feet, but
supplied with running water except one
night when temperature dropped to
freezing (~~the~~ ^{the} ice formed on the
bay, came through nicely, while of
_____ odd crabs - died in live cage
for except between 9 p.m. and 7 a.m. they
were on deck of ship, though placed
in live box on arrival at Alhuts.

Crabs molt in certain sheltered areas
Also Crane Bay. (at least at this season of year)
Believe the total number that has come here
to molt is here & that it is
limited.

Early returns show —————


Of course all we say is but ~~small~~
observation because of very short time
available to us here;

We need to qualify all our remarks
by "at this time of the year."

It would appear that the ♀ crabs have passed
their moult & that male crabs are in
part at least undertaking their moult. *
? No time to fish crabs commercially
give them chance to spawn, moult &
mate?

* only specimens that we have seen so far (2)
were males & only one that had
distinct indication (a la keymouth) was
a male & photod.

helmsides change for "crabs all over
bay" to concentrated in small place to
molt (molt is info by molt)
in case of ♀ is preparation for mating

At low tide the
seems to have to take for
crabs does lay over ^{and}
inside riding on hind ^{inside} ~~crab~~
and end of 

Pay for bottles, transfers

Crab larvae, fine

Plant hanks

water samples just the thing

6 halibut 10-30 lbs

① ③ never a 90 lb halibut

lot of small crabs & females

great quantities of all kinds of
animal life, very little
mud.

Prove that they are sufficient to attract a fishery

but that an outfit like this is not a paying prop.

~~with wings~~

~~120 x 85~~

deep

that was demonstrated '38

Head note 86
Grandmk 115

65-70 ft

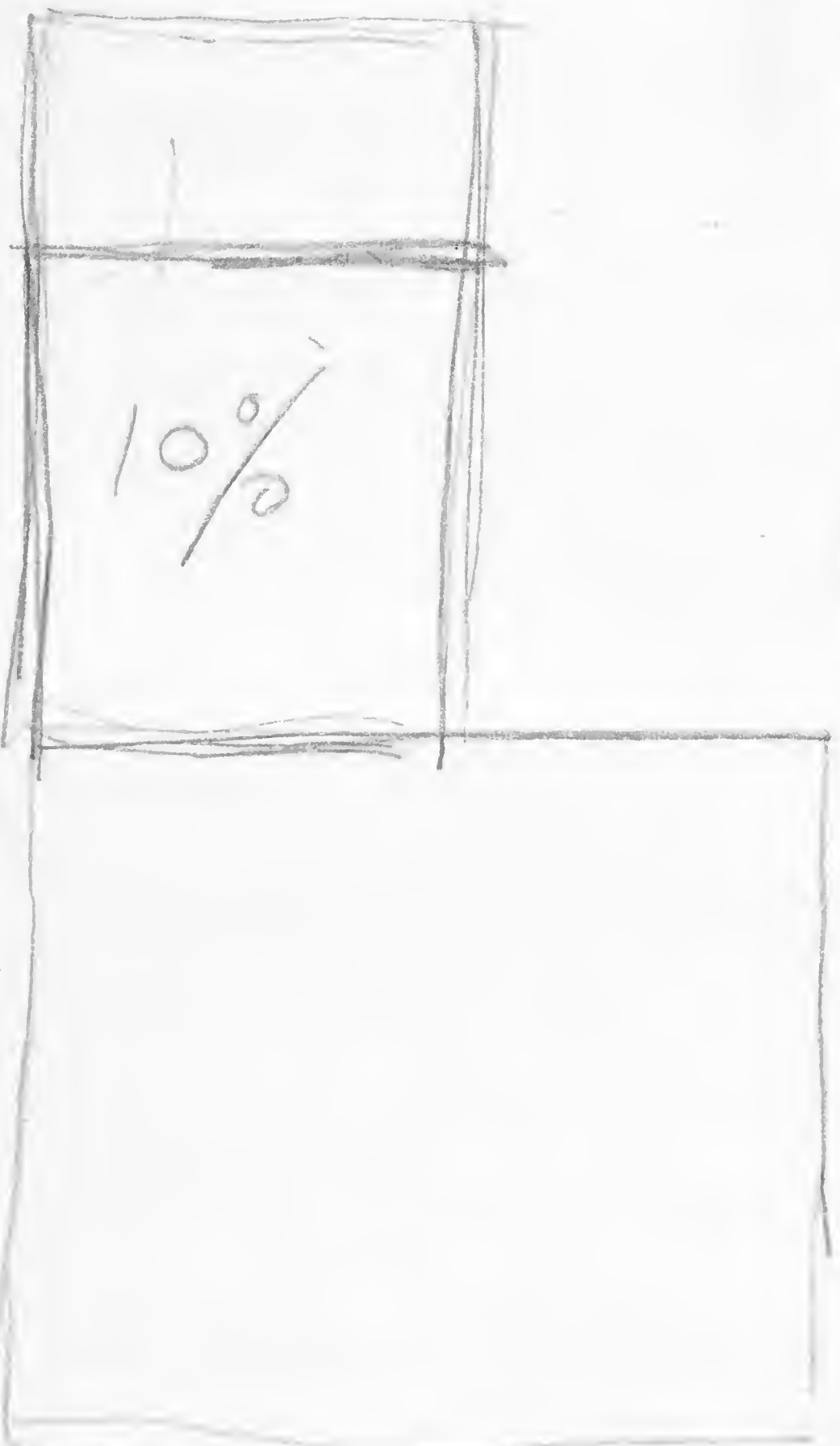
bag

del

76 head
116 grand

2% wt of lime
from (full strength)
2% of wt of lime
2% sodium carbonate

(Next are the 2% of lime
or water pure)



Recaptured Jagged Crabs

| Date Recaptured | Date Jagged | Place Recaptured | Place Jagged | Jag. No. | Crab No. | Remarks |
|-----------------|-------------|------------------------|--|----------------|----------|---|
| 9/28/40 | 9/24/40 | Canoe Bay Crab Hole | Canoe Bay 2nd. Inshore ONIA N.J. | 52305 48105 | 98 | Redumped by Andrade's Anchorage Lost 5 screws in weight. |
| 9/27/40 | 9/22/40 | Canoe Bay Crab Hole | " " | 52306 48106 | 103 | Redumped by Andrade's |
| 9/30/40 | 9/28/40 | " " | " " | 52386 48186 | 537 | " at Crab Hole |

Biol min. size

Kamohata 85-90 mm (3.345 = 3.543)
hemura 100-105 " (3.937 = 4.133)

Gill net crabs nearly all
males all but 2
hard get females that gill
net wouldn't ?

Date Sept. 21, 194 Sta. Comparison of meamymat Location C.J.P. (Form E)

| 1. No. | A | B ^{W.H.} 92 | C 93 | D 94 | E |
|------------------------------------|----------------|-------------------------|-------------------------|-------------------------|-------------------------|
| 2. Sex | | | | | |
| 3. Condition (hrd. sft. peeler) | | | | | |
| 4. Weight | | | | | |
| 5. Length | 6.482 6.530 | 6.811 6.614 6.592 | 6.816 6.805 6.796 | 5.520 5.512 5.505 | 5.005 5.010 5.017 |
| 6. Width | | 8.148 8.123 8.154 | 8.154 8.215 8.136 | 6.731 6.785 6.760 | 5.901 5.901 5.912 |
| 7. Width abd. | | | | | |
| 8. Lgth. 3rd merus. | | 6.733 6.713 6.753 | 6.966 6.957 6.988 | 5.072 5.026 5.026 | 4.857 4.846 4.824 |
| 10. Tag No. | | | | | |
| 11. Growth on shell | | | | | |
| 12. Food in mouth parts | | | | | |
| 13. Stomach contents | | | | | .02 |
| 14. Parasites (gills also) | | | | | |
| 15. Weight total eggs | | | | | |
| 16. Eggs per unit | | 1.452 1.473 1.485 | 1.461 1.454 1.453 | 1.264 1.251 1.249 | 1.003 0.983 0.992 |
| 17. Major chela long | | 4.290 4.280 4.286 | 4.385 4.379 4.396 | 3.527 3.521 3.512 | 3.286 3.265 3.268 |
| 18. " high | | 2.405 2.399 2.388 | 2.404 2.396 2.398 | 1.952 1.945 1.951 | 1.690 1.694 1.716 |
| 19. " thick | | 1.682 1.709 1.701 | 1.719 1.715 1.727 | 1.361 1.366 1.383 | 1.125 1.138 1.130 |
| 20. | | | | | |

Barnacles removed from right side of carapace

49
50

Date Sept. 21, 1941 Sta. Location (Form E)

| | | | | | | |
|--|---------|--|--------------|----------|---------|--------------------|
| 1. No. | A | B (92) | C (93) | D (94) | E (95) | |
| 2. Sex | ♂ | ♂ | ♂ | ♂ | ♂ | |
| 3. Condition (hrd. sft. peeler) | fertile | fertile | very fertile | dead | dead | |
| 4. Weight ^{dry} _{before immersion} | 9.15 | 8.10 | 9.15 | 5.4 | 3.9 1/2 | wt. at 9+ bet 9+10 |
| 5. Length | 6.482 | 6.811 | 6.816 | 5.520 | 5.005 | |
| 6. Width | 7.970 | 8.148 | 8.154 | 6.731 | 5.901 | |
| 7. Width abd. | | 15mm. clasp not cleaned off right side | | left leg | | |
| 8. Lgth. 3rd merus. | 6.354 | 6.733 | 6.966 | 5.072 | 4.857 | |
| 10. Tag No. | | 8 1/4 1/2 | 10/3 | | | |
| 11. Growth on shell | | regained wt in 1 hr. or a little more | | | | |
| 12. Food in mouth parts | right | 9/4 | 10/8 | | | |
| 13. Stomach contents | | B (92) | C (93) | D. (94) | E (95) | |
| 14. Parasites (gills also) | | | | | | |
| 15. Weight total eggs | | | | | | |
| 16. Eggs per unit | 1.456 | 1.452 | 1.461 | 1.264 | 1.003 | |
| 17. Major chela ^{long} | 4.134 | 4.290 | 4.385 | 3.527 | 3.286 | |
| 18. " high | 2.385 | 2.405 | 2.404 | 1.952 | 1.690 | |
| 19. " thick | 1.671 | 1.682 | 1.719 | 1.361 | 1.125 | |
| 20. | | | | | | |

Date 8/12/28, 194. Sta. Pat's measurements of crabs left on deck Location (Form E)

| | | | | | | |
|--|--------------------|-----------|--------|--------|-------|--|
| 1. No. | D (94) | E (75) | C (73) | B (62) | A | |
| 2. Sex | ♂ | ♂ | ♂ | ♂ | ♂ | |
| 3. Condition (hrd. sft. peeler) | | | | | | |
| 4. Weight | 5. 4 | 3 9 1/2 | 10 1 | 8 14 | 9 9 | |
| 5. Length | 5.512 | 5.010 | 6.805 | 6.614 | 6.530 | |
| 6. Width | 6.785 | 5.901 | 8.215 | 8.123 | 8.077 | |
| 7. Width abd. | | | | | | |
| 8. Lgth. 3rd merus. | left side 5.026 | 4.846 | 6.957 | 6.713 | 6.375 | |
| 10. Tag No. | | | | | | |
| 11. Growth on shell | | | | | | |
| 12. Food in mouth parts | | | | | | |
| 13. Stomach contents | | | | | | |
| 14. Parasites (gills also) | | | | | | |
| 15. Weight total eggs | | | | | | |
| 16. Eggs per unit | 1.251 | 0.983 | 1.454 | 1.476 | 1.460 | |
| long 17. Major chela | 3.521 | 3.265 | 4.379 | 4.280 | 4.138 | |
| 18. " high | 1.945 | 1.694 | 2.396 | 2.399 | 2.352 | |
| 19. " thick | 1.366 | 1.138 | 1.715 | 1.709 | 1.681 | |
| 20. | | | | | | |

Sat. ^(Sept.) 21-1940

At 9⁰⁰ a.m. Three largest crabs

showed signs of life viz voluntary movement of scaphognathite; these were weighed and measured twice at about hr. interval (check of measurement) and placed in fresh sea water dipped up by bucket in tank.

At 11⁰⁰ a.m. only the largest (#A) crab seemed to be the only one alive

Scaphognathite ^{seems to be} ~~is~~ the best indicator of life. These respiratory functions were in action

Sept.
Sat. 21 - 1940

Canned lot of crabs near ^{only 2 or 3 were alive}
all dead, at least 20 although ^{to the ground}
was slack + hint or else ^{probably lost}
up, many backs in surface ^{no weight in water}

Crabs kept on deck lost
(crab B) 10 oz and (crab C) 9 oz

regained (B) $4\frac{1}{2}$ oz and (C)
4 oz. in the R. immersion

How much of this was more extraneous
water?

How do dead crabs canned
after being kept in water compare
with those kept on deck + immersed
one hour (\pm) in water.

(there is no no. II sheet —)

CANOE BAY

| | |
|---------------------------------|-----|
| No. males | 424 |
| No. ovig. females | 278 |
| No. non-ovig. females | 10 |
| Sex not specified | 1 |

Males

Average weight (424 spec. weighed) 8.82427 lb.
(141.18632 oz.)

Average length (424 " measured) 6.10188 inches

Average width (419 spec. Measured) 7.30615 "

Ovig. females

| | |
|-------------------------------------|----------------|
| Average weight (267 spec. weighed) | 6.12219 lbs. |
| | (97.95505 oz.) |
| Average length (278 spec. measured) | 5.45 inches |
| Average width (277 spec. measured) | 6.04768 inches |

Non-ovig. females

Average weight (10 spec. weighed) 1.489375 lb.
(23.775 oz.)

Average length (10 spec. measured) 3.8261 inches

Average width (10 " ") 4.1185 "

Sex not specied (1 specimen)

Weight 10 lb. 6 oz.
Length 6.860 inches
Width 8.481 "

OLGA BAY (Paralithodes camtschaticus)

No. males 44
 No. ovig. females 66
 No. non-ovig. females 23

Males

No weights

Av. length (44 specimens measured) 4.5281 inches

Av. width (44 " ") 5.27336 "

Ovig. females

No weights

Av. Length (66 specimens measured) 4.58877 inches

Av. width (66 " ") 5.09845 "

Non-ovig. females

No weights

Av. length (23 specimens measured) 3.9369 inches

Av. width (23 " ") 4.5142 "

OLGA BAY (Paralithodes platypus)

No. males. 31
 No. ovig. females. 7
 No. non-ovig. females. 3

Males

No weights

Average length (31 spec. measured) 5.31145 inches

Average width (31 " ") 6.814645 "

Ovig. females

No weights

Average length (7 spec. measured) 4.5051 inches

Average width (7 " ") 4.959 "

Non-ovig. females

No weights

Average length (3 spec. measured) 3.448 inches

Average width (3 " ") 3.842 "

SHELIKOF STRAITS

No. males 26
 No. ovig. females 9
 No. non-ovig. females 1
 Sex not indicated 1

Males

Average weight (25 specimens weighed) 12.305 lb.
 (196.88 oz.)
 Average length (26 specimens measured) 7.08338 inches
 Average width (26 " ") 8.5995 "

Ovig. females

Average weight (5 specimens weighed) 5.85625 lb.
 (93.7 oz.)
 Average length (9 specimens measured) 6.0607 inches
 Average width (9 " ") 8.7144 "

Non-ovig. female (1 spec.)

Not weighed.

Length 4.728 inches
 Width 5.213 "

Sex not specified (1 spec.)

Weight 15 lbs. 5 oz.
 Length 9.619 inches
 Width 9.656 "

Biological Supplies for U.S.B.F. King Crab Investigation
1940

| No. | Equipment | Amount | Source |
|-----|--|-----------------------------|-----------|
| | <u>Collecting</u> | | |
| 1. | plankton nets, #6 | 3 | Bailey |
| 2. | line for same | | " |
| 3. | dip nets | | gear man? |
| 4. | extra fine mesh for dip nets | | " " |
| 5. | Bottom sampler (bulldog) | 1 | Schmitt |
| 6. | water samplers | 6 | Bailey? |
| 7. | sieves | | Schmitt |
| 8. | collecting chests 8 Oz. bottles. | 3 | " |
| 9. | canvas bags for dried bot- tom samples. | 1 doz. | |
| 10. | cyanide bottle | 1 | Schmitt |
| 11. | light weight pails, cheap make | 1 doz. | |
| | <u>Recording</u> | | |
| 12. | calipers, very large, dial calibrations | 4 | |
| 13. | 5x11 record books | 2 | |
| 14. | 3x5 memo books | 2 | |
| 15. | gum labels, medium about 2 1/2 x 1 1/2 | 2 doz. | |
| 16. | printed labels identi- fying cruise | 2,000 | |
| 17. | tin tags | | |
| 18. | extra bag needles | 1 box | |
| 19. | manila tags | | |
| 20. | yard stick, inches and meters | 2 | |
| 21. | small steel tape | 3 | |
| 22. | Thermometers | 12 | Bailey |
| 23. | Higgins internal ink | 3 bottles | |
| 24. | tagging equipment | 2 doz. | |
| | <u>Preserving</u> | | |
| 25. | alcohol | 50 gal. drum, Navy, Seattle | |
| 25. | formalin | 20 1 lb. bottles | |
| 26. | chest gallon jars | 1 | Schmitt |
| 27. | 1 quart, wide-mouth, whole fruit, jars. | 6 doz. | " |
| 28. | no. 2 vials with corks | 2 gross | " |
| 29. | heating and drying equipment. | | |
| 30. | citrate magnesia bottles | 1 gross | Bailey |
| 31. | 8 gal. tanks filled with | 2 | Schmitt |
| 32. | 16 gal. tanks alcohol | 3 | " |

besides drum

Biological Supplies for U.S.B.F. King Crab Investigation
1940

| No. | Equipment Collecting | Amount | Source |
|-----|---|-----------------------------|-----------|
| 1. | plankton nets, #6 | 3 | Bailey |
| 2. | line for same | | " |
| 3. | dip nets | | gear man? |
| 4. | extra fine mesh for dip nets | | " " |
| 5. | Bottom sampler (bulldog) | 1 | Schmitt |
| 6. | water samplers | 6 | Bailey? |
| 7. | sieves | | Schmitt |
| 8. | collecting chests 8 Oz. bottles. | 3 | " |
| 9. | canvas bags for dried bot- tom samples. | 1 doz. | |
| 10. | cyanide bottle | 1 | Schmitt |
| 11. | light weight pails, cheap make | 1 doz. | |
| | <u>Recording</u> | | |
| 12. | calipers, very large, dial calibrations | 4 | |
| 13. | 8x11 record books | 2 | |
| 14. | 3x5 memo books | 2 | |
| 15. | gum labels, medium about 2 1/2" x 1 1/2" | 2 doz. | |
| 16. | printed labels identi- fying cruise | 2,000 | |
| 17. | tin tags | | |
| 18. | extra bag needles | 1/2 box | |
| 19. | manila tags | | |
| 20. | yard stick, inches and meters | 2 | |
| 21. | small steel tape | 3 | |
| 22. | Thermometers | 12 | Bailey |
| 23. | Higgins internal ink | 3 bottles | |
| 24. | tagging equipment | | |
| | <u>Preserving</u> | | |
| 25. | alcohol | 50 gal. drum, Navy, Seattle | |
| 25. | formalin | 20 1 lb. bottles | |
| 26. | chest gallon jars | 1 | Schmitt |
| 27. | 1 quart, wide-mouth, whole fruit, jars. | 6 doz. | " |
| 28. | no. 2 vials with corks | 2 gross | " |
| 29. | heating and drying equipment. | | |
| 30. | citrate magnesia bottles | 1 gross | Bailey |
| 31. | 8 gal. tanks filled with | 2 | Schmitt |
| 32. | 16 gal. tanks alcohol | 3 | " |
| | besides drum | | |

BIOLOGICAL SUPPLIES

- Bottom sampler 2 Schmitt
- 1 drum 5 gal alcohol from Navy
- 10 lb. formalin
- 3 ✓ plankton nets #6
- 1 dredge
- ✓ line for same
- 12. thermometer 6 doz
- 1 chest 1 gallon Schmitt. wide mouth (whale) 1
- 1 chest 1/2 doz mason jars: quarts, pints, 1/2 pints
- 4 gross vials & corks Schmitt
- microscope -- binocular
- 1 Box slides, cover glasses, ~~mounting equipment~~
- tagging equipment
- ✓ calipers 4 pair 1 large dial calibration
- ✓ dip-net Vogel man.
- log & memoranda books 2 ✓ 8x11 Record Books.
- marine charts (free through Seattle Coast & Geodetic Survey Office)
- canvass sacks for bottom samples filled with 2, 8 gal alcohol 3, 16 gal Schmitt.
- dissecting sets
- forceps including extra large set Schmitt-3
- gum labels
- ✓ parchment paper Printed labels. ident. course.
- ✓ Tin tags 1/2 doz bag needles.
- ✓ drawing outfit
- ✓ manilla
- ✓ shipping tags
- ✓ aquarium -- 10 gallon
- ✓ watch glass
- ✓ some type of heating & drying equipment
- ✓ 2 yard stick -- inches & meters
- ✓ 3 steel cloth tape small.
- ✓ 1000s Schmitt.
- Schmitt - geological hammer
- " pinch bar, tools.
- " White enamel pans.
- " hand brace.
- Schmitt - Cyanide bottle
- Schmitt - CaCO₃
- Chloride of lime
- medical supplies.
- Citrate Magnesia bottles
- Water Samples.
- 1 for every sample
- 1 gross.
- arrange with T. Thompson
- at Seattle, or scripts who
- do Titration.
- 3x5 memo Book
- collecting chests
- 80 8oz bottles per chest
- 1 lb. Bottle Thymol
- 10 lbs. Epsom Salts
- 3 Hypodermics fresh
- injection 12 extra
- needles.
- 4 galvanized iron
- wash tubs not
- 1 doz light wt. nails light.

1 Alcoholmeter. but alcohol.

2 bolts chere cloth.

Table twine (won't gear man have
plenty of chord & twine.

Higgins internal int. 4 bottles
2 doz. No. 2.

Small shears. 2 pair.

Wrapping paper.

Bottom sampler.

(Bulldog sampler) Schmitt.

Aluminum Kettle.

Boots?

2 flash lights.

1 doz. pipettes.

weights for tow net. (each weight
gear man).



Biological Supplies, King Crab Investigation
1940

| No. | Equipment | Amount | Source |
|-----|--------------------------------------|-------------------|-----------------|
| | <u>Preserving cont.</u> | | |
| 33. | thymol | $\frac{1}{2}$ lb. | |
| 34. | opson salts | 10 lbs. | |
| 35. | hyperdermics for injecting fish | 3 | Hilderbrand? |
| 36. | extra needles for hyperdermics. | 12 | |
| 37. | alcoholmeter | | |
| 38. | cheese cloth | 2 bolts | |
| | <u>Containers</u> | | |
| 39. | aquarium 10 gal. | 1 | |
| 40. | watch glasses | 6 | |
| 41. | galvanized iron wash tubs (nest) | 4 | |
| 42. | kettle for boiling specimens. | 1 | |
| 43. | white enamel pans | | Schmitt |
| | <u>Miscellaneous</u> | | |
| 44. | cable twine | | gear man |
| 45. | geological hammer | 1 | Schmitt |
| 46. | pinch bar | 1 | " |
| 47. | hand lenses | | |
| 48. | Binocular microscope | 1 | Schmitt |
| 49. | forceps 12" | 12 | |
| 50. | dissecting set | 2 | |
| 51. | first aid kit. | | |
| 52. | chloride of lime | | |
| 53. | small shears | 2 pr. | |
| 54. | wrapping paper | | |
| 55. | pipettes | 1 doz. | |
| 56. | weights for tow net sash weights? | | |
| 57. | flash lights | 2 | |
| 58. | extra batteries | 1 doz. | |
| 59. | rubber boots | 2 pr. | Bureau of Fish. |

Biological Supplies

| No. | Equipment | Amount | Source |
|-----|-----------------|--------|-----------|
| 1. | Plankton nets | 3 | B.F. |
| 2. | line for same | | " |
| 3. | Dip nets | | Geat man? |
| 4. | extra fine mesh | | |

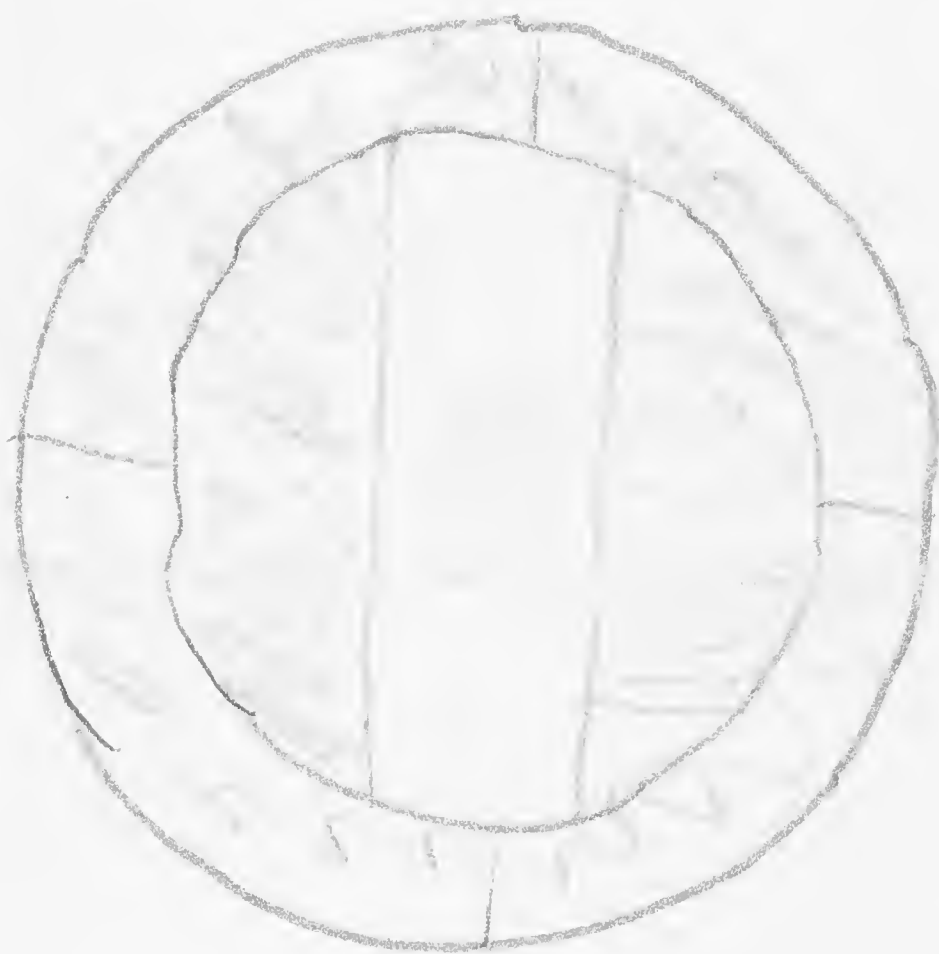
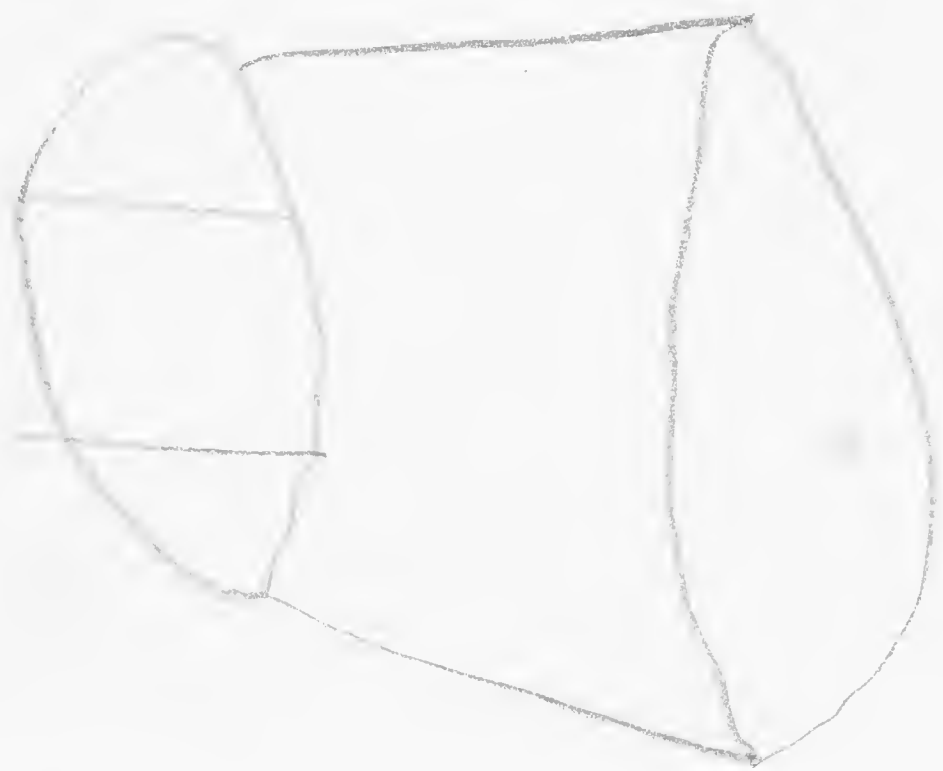
Biological Supplies, King Crab Investigation
1940

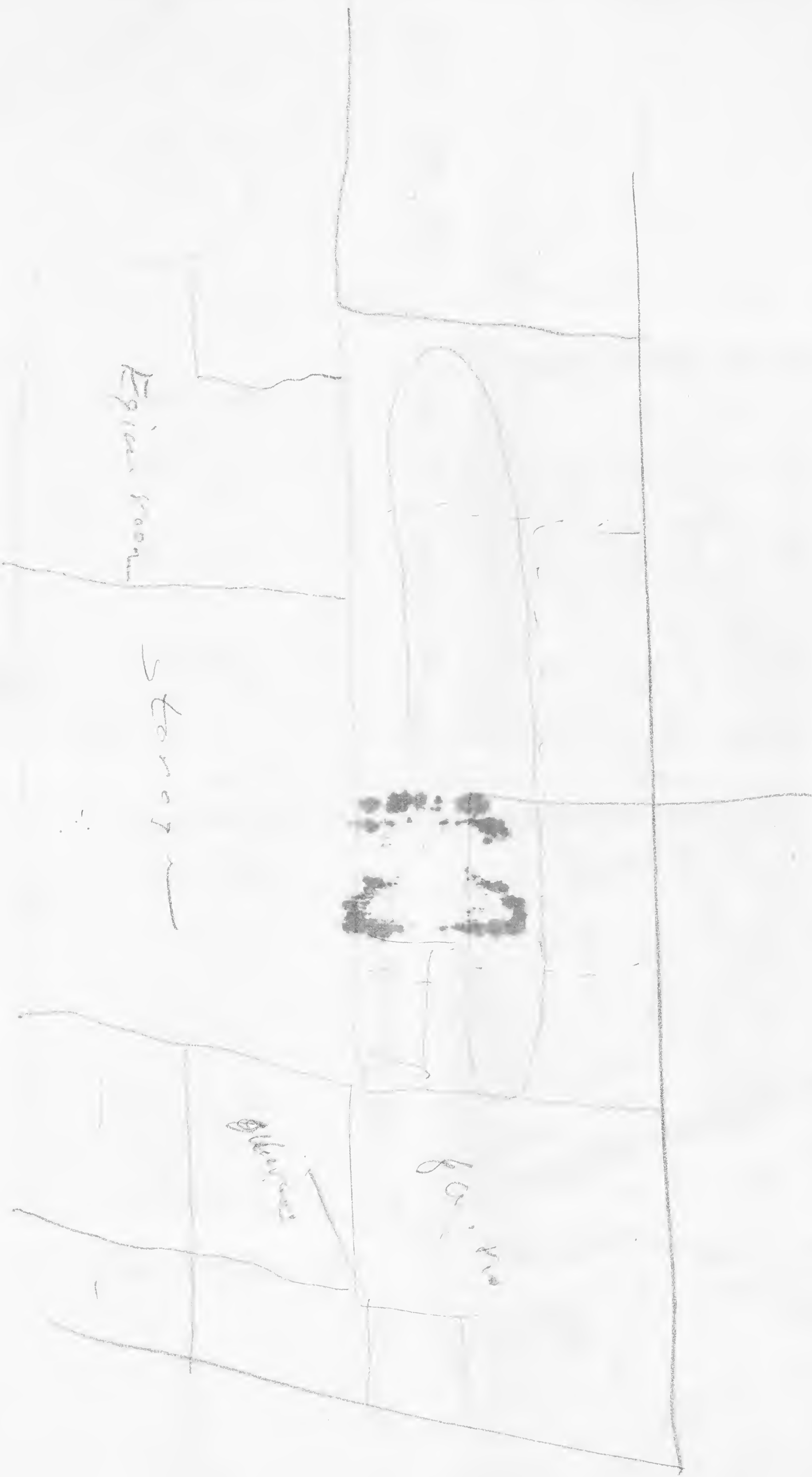
| No. | Equipment | Amount | Source |
|-----|--------------------------------------|-------------------|-----------------|
| | <u>Preserving cont.</u> | | |
| 33. | thymol | $\frac{1}{2}$ lb. | |
| 34. | epson salts | 10 lbs. | |
| 35. | hyperdermics for injecting fish | 3 | Hilderbrand? |
| 36. | extra needles for hyperdermics. | 12 | |
| 37. | alcoholmeter | | |
| 38. | cheese cloth | 2 bolts | |
| | <u>Containers</u> | | |
| 39. | aquarium 16 gal. | 1 | |
| 40. | watch glasses | 6 | |
| 41. | galvanized iron wash tubs (nest) | 4 | |
| 42. | kettle for boiling specimens. | 1 | |
| 43. | white enamel pans | | Schmitt |
| | <u>Miscellaneous</u> | | |
| 44. | cable twine | | gear man |
| 45. | geological hammer | 1 | Schmitt |
| 46. | pinch bar | 1 | " |
| 47. | hand lenses | | |
| 48. | Binocular microscope | 1 | Schmitt |
| 49. | forceps 12" | 12 | |
| 50. | dissecting set | 2 | |
| 51. | first aid kit. | | |
| 52. | chloride of lime | | |
| 53. | small shears | 2 pr. | |
| 54. | wrapping paper | | |
| 55. | pipettes | 1 doz. | |
| 56. | weights for tow net sash weights? | | |
| 57. | flash lights | 2 | |
| 58. | extra batteries | 1 doz. | |
| 59. | rubber boots | 2 pr. | Bureau of Fish. |

Biological Supplies

| no. | Equipment | Amount | Source |
|-----|-------------------|--------|--------------|
| 1. | Plankton nets. #6 | 3 | Boiley, B.F. |
| 2. | Inc | | |

Mr. Nelson's Sketch of Crab Traps used
in Halibut Cove.





Conrad Gues 170
 Remond 25 mms

Form A

FISH AND WILDLIFE SERVICE

Date _____

Report No. _____

CRAB BOAT REPORT

Time boat left _____ Time fishing started _____ Time catch landed _____

Boat _____ Captain _____ Weather (Wind _____
(Sky _____ Air temp _____
(Water _____ Barometer _____

Depth _____ Water temperature (1) Surface _____ (2) below _____ Water sample No. _____

Area fished _____

Type of gear _____ Amount gear used _____

*Degree of fishing effort _____

Catch (per drag, shackle of net, or trap) _____ Total catch _____

Condition of catch on delivery at cannery _____

Destruction of young crabs, number, sizes _____

" " fish, kinds, number, sizes _____

" " other forms of bottom life _____

Canning code for day _____

Examination of pack _____

**Remarks

* i.e. Number of drags if trawling. Number of pots or tangle nets lifted, etc.
**Should include general description of relative abundance of different forms of
bottom life, including algae.

DETAILED FISHING REPORT

Date _____ Type gear _____

[illegible]

(Form D)

[illegible]

Date _____, 194____. Sta. _____ Location _____ (Form E)

| | | | | | | |
|----------------------------------|--|--|--|--|--|--|
| 1. No. | | | | | | |
| 2. Sex | | | | | | |
| 3. Condition (hrd.sft.peeler) | | | | | | |
| 4 Weight | | | | | | |
| 5. Length | | | | | | |
| 6. Width | | | | | | |
| 7. Width abd. | | | | | | |
| 8. Lgth. 3rd merus. | | | | | | |
| 10. Tag No. | | | | | | |
| 11. Growth on shell | | | | | | |
| 12. Food in mouth parts | | | | | | |
| 13. Stomach contents | | | | | | |
| 14. Parasites (gills also) | | | | | | |
| 15. Weight total eggs | | | | | | |
| 16. Eggs per unit | | | | | | |
| long 17. Major chela | | | | | | |
| 18. " high | | | | | | |
| 19. " thick | | | | | | |
| 20. | | | | | | |

1940

Aug. 28 Calm Cloudy & overcast.

Sept. 8
8:30

Cape Ohman Str
(W. S. W. 30 miles) Chilly & Breezy

Sept. 9.

5:30 a. 12:30 p.
(W 25-15 mi.)
Clear mod. swell

Sept. 10
12:30 a.

(W. Lt) + mod. sea.

12:30 p.

(S.W.) overcast making from S.W.

Wind has been shifting today from west to S.S.W. and back to S.W. and has had considerable force.

Sept. 11

Lt. S.W. running to W.

12:30 a.

N.N.W. 35 Very choppy sea

12:30 p.

Cape Chincich sighted

9:05

Saw cutter in.

10:30 p.

Lt. N.N.W. + Clear.

Fine moonlight weather tonight smooth sea with S.W. N.N.W. breeze

Sept. 12

12:30 a.

Ugashad Id @. Breeze. N.N.W. 0 Clear +

12:33 p.

Tugidak Id @. S.W. 10 mi. Clear + Breeze

5:45

S.S.W. blow making with rain S.S.W. 25 mi rain + wind.

7:18

Shipped Large Sea over Port quarter + back out Port Pilot from glass. Turned back to 1.33 N 1/2 E.

(SSE 45) Heavy sea. Running toward Shelikof St.

Sept 13. Turned back on course
2:00 a.m. S $\frac{1}{2}$ W. slow bell Fresh SSE

5:45 a. Still clear. Bar. 29:60
S.W. swell Sr. W. breeze.

8:30 a. Wind making up but very
quite fresh with heavy
swell making choppy over
sea. Turned back for
Cape Akute Fresh W +
S.W. swell

11:22 p.m.
Smidi d. l. (a)
Fresh W + clear
bright moonlight & nice
weather.

Sept. 14

7:30 a.m. Fresh. S.S.E. + Rain

11:38 a. Kureanoff Pt.
S.S.E. 50 mi. S.E. gale +
Rain.

(37)

some question as exact
location. Wind weather
+ heavy S.S.E. gale
with wind backing to W.
Baro. 29:50.

Turned back for
Kureanoff Pt. gale
of wind from W.S.W. at
approx. 50 or 60 miles
per hour.

3:30
p.m.

Anchored behind the
reef at Pt. very strong
swells out off the
land. The swell the
day with terrific force
so the anchor holds.

Sept. 15

7⁰⁰ a.m. Wind still flat heavy
but moderated somewhat
at 8 a.m. & departed for
Kupreanof Is. Is.

9 a.m. Arr. in Kupreanof Abr
anchored in 10 fms.
in west end of Bay
Still strong winds
shifting to W. S.W. + N.W.
+ Back.

Sept. 16 Still storm bound in
Kupreanof Harbor

12 noon Bar. 29:92.

8 p.m. 29:65

Wind hauled today
from W.N.W. to S.S.W.
with rain.

7⁰⁰ a.m. Fresh SSW wind
Bar. 29:92

10⁰⁵ Incoming heavy sea
Squall & Rain Bar.
29:10

12²⁰ Kupreanof Pt. L.
A. ~~Again~~ S.S.W. overcast
Bar. 28:99.

~~12³⁰~~
7¹⁰ p.m. Arr. Squam Is.
S.S.W. 30 miles
Bar. 29⁰⁰

Sept. 18

at Squam Is.
Weather has been
miserable today very heavy W.N.W.
wind & some rain. The glass is
steadily rising.

Sept. 19

7¹⁰ a. departed Squaw blr.
heavy W.N.W. Bar.
29:46

12³⁰ p.m. Seal Cape str. Fresh
W.N.W. 29:43.

4⁵⁰ a.m. Canoe Bay.

Sept. 20 Canoe Bay
Blowing a gale N.E.
Bar. 29:92.

Sept. 21 Str. S.E. & rain. all
day with low glass
(*) Nelson + Schmitt. 2 drags. 10 crabs
second 150-200.

Sept. 22 Weather very changeable
Today with low Bar.
glass read as low as
28:74 at 11.00 a.m.
(3 drags 1 = 118 crabs
2 = 0
3 = 7
125

Sept. 23

8 a.m.

Bar. 29:15

4 sets = 89 crabs.

(1) = 25 min.

(2) = 20 min.

(3) = 20 min.

1230

a.m.

unloaded crabs.

3 sets = 150 crabs.

most in last haul in N.W.

Str. Bay.

Bar 29:40

Sept. 24
8:25 a.

Overcast. ST. h. w. Bar. 29:69.
1st net. 30 min. 3 1/2 doz crabs.
2nd. 30. 1 doz.
3d. 30 min. 10
4th 1 hr 25 min. ^{very} few crabs.

1:50 p.m. Set. Sudeley for Parloff Bay.

① Out. 2:50 p. 5 mi.
S.W. Entrance covered
S.S.W. 1 hr. got nothing
② N.N.W. 1 hr. got
nothing

6:40 p. Bar 29:88.

Sept. 25
7:10 a. Parloff Bay Nelson
Bar. 29:98.

- ① 7:55 no crabs.
- ② 1:02 " "
- ③ 1:40 " "
- ④ 4:10 " " Covered

2 hrs. + 20 mins.
no crabs.

attn. Sudeley Bar.
30:00

Did lot of
running
around at
Nelson's
behest
8:10

Sept. 26
7:40

Went high & clear.
~~head~~ Bar. 29:98.

- ① 42 min. 62 ♀ crabs
1 ♂ flounder.
- ② 50 min. 102 large ♂
crabs.

- ③ 50 min.
2 ♂ flounder.
1/2 doz crabs

1:20 p.m. Sudeley
1:20 ④ Parloff Bay.

6:40 am. ⑤ Sudeley clear. "Calm" Bar. 29.94/

Sept. 27. Care Bay
Sighs & Fresh W.N.W.
8:00 a.m. Wind. Sky overcast.
Bar. 29:88.

8:20 (1) net mugged 5 seals

9:30 (2) 45 min. 36 crabs.

10:40 (3) 28 min. 18 crabs.

11:25 (4) 45 min. 48 crabs.

12:40 (5) 50 min. 74 crabs.

1:45 p.m. ret. Bunderly to land
Bar. 29:82

Fresh W.N.W. wind.

2:45 p.m. (6) 45 min. 66 large crabs.

(7) 55 min. 98 crabs.
+ lots of 2 each

5:25 (8) 40 min. 28 crabs.

Total for today 385 crabs.

6:25 ret'd in day.

still sr. to mod. W.N.W.

wind. Bar. 29:88

Sept. 28 weather cloudy occ. shower
mod. W.N.W. wind. Bar.
30:00

Care Bay

(1) 40 min 55 crabs.

(2) 40 " 92 crabs

(3) — 78 crabs.

(4) 55 min

netted net

but got 114 crabs.

1:50 p.m. ret to mod net to
land. W.N.W. occ.
Bar. 30:03. showers

Composition

Sept 2/9

Sept. 30

4²⁰ a.

Called by radio Heavy S.E.
Gale & Rain.

On moving away from
Sundaleys & anchor
got in sand spit.

8¹⁵ a.

Still gale - S.E. & Rain
Bar. 29:60
Anchored across Bay.

9⁵⁰ a.

still heavy S.E. gale
Bar. 29:60

1⁴⁸ p.

(1) 40 min. 20 crabs.

3¹⁰

(2) 40 min. 3 crabs

4¹⁰

(3) strong wind could not
hold net on spot.

1 min 25 crabs
Heavy S.S.E.

5²⁰

Very strong S.S.E. wind
Bar. 29:78

Oct. 1.
7⁰⁰

Still fresh S.S.E. wind.
Heavy for much for work.
Baro. 29.72

8⁵⁰

① 1 hr. — $\frac{1}{2}$ doz crabs
(net got tangled)

10³⁰

② 30 min. = 2 crabs.
still fresh breeze

11²⁰ a.

③ 40 min. = no crabs.
wind back to W.

12¹⁵ p.

④ 45 min. = 29 crabs.
wind backed to W.N.W.

1²⁵

⑤ 40 min. = 8 crabs
(1 Tow net)

50 min. nearly net.

2⁵⁵

⑥ 1 hr. = 6 crabs.

4²⁰

⑦ 1 hr. = 140 crabs.

6⁰⁰

am. Sandalwood.

8⁰⁵ p.

fresh west wind
sky overcast.

Oct. 2
7:30 a.
7:53

Bar. 30:10

(1) min = 63 crabs.
Shore westerly Breeze

9:10

(2) 25 min = 6 crabs

10:00

(3) 50 min. = 12 crabs

11:05

(4) ? min = 25 crabs

(4) = 20 min + 2 crabs

12:45

(5) min = 14 crabs
no much catch.

2:10

alongside Dandey

Shy over cast Bar. 30:10

2:55

thickened wh buoy key.

3:03

(6) 1 hr. = 25 crabs

4:25

(7) 1 hr. = 18 crabs

5:50

ret'd to Dandey.

Shy over cast Bar. 30:08
Str. W.

Oct. 3

Str. E. Breeze Bar.

Canoe Bay 29:84

7:50

(1) 1 hr. = 11 crabs.

8:20

(2) 40 min. = 3 crabs

9:45

(3) 45. = 65 crabs

10:45

(4) 45. (3 bags) = 233 crabs

12:05

(5) 50 min. = 88 crabs.

1:40

(6) 55 min. = 57 crabs.

3:10

(7) 40 min = 115 crabs.

4:25

5:45

ret'd Dandey

Str. N.W. Bar.

29:78.

Oct. 4 Landed on land all
forenoon.
1255 p. left Soudelay to
meet mail Penguin
bird W.N.W. 30 mins
shy, willi wans.
540 anchored behind moss
cape. (N.W. 20 mi.)
Clear mod. N.W.
Bar. 30:08

Oct. 5 stopped alongside
3 a.m. Penguin.
Clear. Calm Bar. 29:90

800 a. (S. 10 mi.) shy w/cor.

1230 Left Helgoy for Mearns Bay.
Heavy S.E. Rain. Bar.
29:64.

145 Turned back for Helgoy
Heavy S.E. + Rain

330 anchored in Helgoy.
[35 miles]

1130 p. [Had to move]

1220 a.m. Anchored center of
Helgoy Wh.
mod to fresh h.w. 29:18.

8.02 a left Soudelay with
Tuben for fishing

(X) 130 p. (1) off Belkopski St.
net caught

210 (2) Reser.

310 picked up net and

335 (3) few pike + flounder.
435 10:00 p. 1 net + flounder 2 cod 1 halibut

620 St. S.E. Rumeran
Bar. 28:98.

Oct. 7.

6¹⁵

Weather now good.
SE 10 mi Rain Bar. 28:93

10¹⁰
11⁰

(1) 1 hr. absolutely nothing
in net.

11³⁸
12³⁸

(2) few cod + sole + other
crab.

1¹⁵-2¹⁵

(3) 1500 lbs. sole + 1 ^{side} crab.

2⁴⁵
3⁴⁵

(4) few sole + crab.

4¹⁰

Left for Placoma Bay.
Lt. E.N.E. + clear

5³⁰

anchored head of Placoma
Bay. St. N. Breeze +
clear. Bar. 29:05

Oct. 8

Volcano Bay

7^{am}

weather clear. Day slight
overcast. Calm 29:28.

7⁵³
8³⁰

(1)

{ 1000 lb rock
1 doz dungeness
crabs.

8⁵⁰
9³⁰

(2)

{ 1000 lb rock
3-4 small
cod.

10⁰⁰
11⁰⁰

(3)

1500 lb rock
3 doz dungeness

11²⁰
12⁴⁰

(4)

200-800 lb
rock

12⁰⁰

→ mod. N.W. + clear. ←

1³⁰

(5)

nothing in
net.

2¹⁰

2⁴⁰

(6)

got nothing

3⁴⁰

(7)

St. N.W. + cloudy

got nothing

3⁵³

4³⁰

(8)

net mugged. - nothing

4⁴⁵
5⁰⁰

6⁰⁰ p.m.

am. Sudders

mod. N.W. Bar. 29:38.

Oct. 9.

7⁴⁰ a.m.

(N.W. 10 mi)

clear

Bar. 29:50

11⁵⁰

N.W. 45 miles Rain

although too much wind to fish

in Cold Bay

1³⁰

am. King Core

Very Heavy N.W.

Bar. 29:59

Oct. 10

7²⁵ a. L.P.R. King Cove. (N.W. 25 mi)
Bar. 29:71

9³⁰
10¹⁵

① Seaward Wh.
5-600 lb. sole + flounder

10³⁰
11⁴⁰

② Fresh N.W. Breeze
Leeward Wh.
1 Ton flounder sole.
few nice cod. 1 large King cut

12⁰⁰
1⁰⁰

③ 1 Ton flounder
+ sole

12⁰⁰
2⁰⁰

④ 1000-1200 lb flounder
+ sole

2¹⁵

Sept for cold 12 ay

3²⁸
4¹⁰

⑤ net mugged 1 baby
King cut

6⁰⁵
6⁰⁰

⑥ 200-300 lb. sole +
flounder 1 large King
cut.

7¹⁰

anchored Seaward Wh.
clear + calm 29:72

Oct. 11.
7⁰⁰

weather S.E. Wind
+ Rain (SE 15 mi) 29:45

8⁴⁵
9⁴⁵

① 1600 lb 1 large King cut

10⁰⁰
11⁰⁰

② few sole + 2 cod
Very fresh S.E.

11³⁵

③ 1 Ton flounder sole

12³⁵

12⁵⁰

quite E for Seaward
Wh became fresh S.E.
Bar. 29:23.

2⁰⁰
P.M.

S.E. gale. strong
2 anchors
hull down 29:12

Oct. 12

700

Weather moderate
S. clear & cloudy
Bar. 29.12

1157

off Amagoo Id.
Heavy N.W. wind &
swell.

244

Thin P.V. can buoy
abandon. Heavy N.W. & Rain

655

Ukigoi Id.
S. h. w. 29:30

Oct. 13

8.05

Had to wait for
gill nets B. 29:36
NNW 25 mi.

1200

noon off Gull Id.
Fresh N.W. & Clear

135

Anchored west of
Cane Bay
very strong N.W.
wind & rain B. 29:34

Oct. 14

700

Still fresh N.W. wind
strong squalls B. 29:40

215

after water samples
& gill net anchored
in west end Bay
Fresh N.W. with
rain squalls (some hail)
Bar. 29:44

Weather. Oct. 13

Oct. 13 As soon as we passed Black Point, Kithuto placid sea became white [capped] ed swells due to N.W. wind blowing down the Bay [Cold] ~~Except~~ Except for clear sunny day might have been termed angry.

Oct. 13
Pavlof Bay / Wind chilled in rigging, good & bad clear & crisp, but windy as H. — Snow line much farther down on mountain sides; took 6 pictures of snow blowing over deck, took for first time.

Oct. 14 Clear & cloudy by turns pale blue (sun), the clouds again; wind & hail, blustery, cold! (Put on woolies this forenoon)

Oct. 22 — Sunday Oct. 20 Stern was stop bound in Alitok; 96 mi. per hour wind outside; tonight we came over & rolled over

Oct. 23 Cold starlight night, light N.W. wind

Weather:

Oct. 25 I asked Teacher at Sand Pt. how much longer this glorious weather would last, "Twelve hours," he laughed, "the longer it lasts the worse will be the weather that follows." "Last year from November to February had three months of good weather. This is exceptional here ever."

weather

Write Coker for weather ^{+ temp} summary for
Oct. and Nov.

Sept =

| | |
|---------------------|----|
| Days of gale | 12 |
| Days of wind | 3 |
| Days of slight wind | 10 |
| Days of no wind | 6 |
| Days of rain | 15 |
| Days of no rain | 15 |
| Hours of sunshine | 22 |

Temp. =

45°-70°
only 4 times
above 50°F

Oct. 15

7:00

Fresh. N.W. wind & heavy overcast
Bar. 29:60

Picked up gill nets -
only 20 and net had
King crab & only one.

9:00

9:55

(1) 21 King crabs
quintess spider

10:20
11:15

(2) Lots of spiders
lots of baby Kings

11:40 a

12:30 p

(3) 16 King crabs
lots of spiders

1:00

2:15 p

(4) 1/2 doz King & some
spiders.

Fresh N.W.B. 29:54

7:10

p.m. almost smother
in foggy air. Fresh. N.W.
& Clear Bar. 29:50.

Oct. 16

7:00

Weather clear & Fresh N.W.
Bar. 29:38

1 p.m.

2:00 p

(1) 6-700 lbs sole &
shad.

Fresh. N.W. & Clear.
2 gill nets & 1 cold B & L. H. B.
anchored Seward Wh.
S.W. N.W. & Clear Bar. 29:45.

6:30

Oct. 17

Weather - Fresh. N.W.
Squalls & Rain 29:46

8:45

10:00

(1) 1000 lbs flounder & sole 1 King

10:50

11:50

(2) few sole 1 King crab.

12:15

1:35

(3) just a few flounder

Picked up gill nets
just 3 spiders 1 King crab
Seward 1 King 9 shad.

Oct. 13.
Cradle.

4 35 p.

Sett for Ibsala
St. N.W. + clear

9 00 p.

Anchored in 20 fms.
3 miles S. of Kenmore
Head. Bar. 29.62.
St. N.W. + clear

Oct. 14

7 00

Breathy strong N.W.
Squalls Bar. 29.68

7 55

8 55

① S.W. small bulbar
+ rls

9 20

11 20

② 1500-1600 ^{lb} rls
very strong N.W.

12 00

10 55

③ same rls + gladder
heavy N.W.

13 00

2 30

④ 500 ^{lb} rls

2 55

9 40

fresh N.W. + cloudy
an. alongside Sudeley
at Dolgoi St. N.W. B. 29.58

Oct. 14.

8 35

Sett. Dolgoi, fresh N.W.
St. Snow

12 41

very strong N.W.

5 25

at Sudeley Hk.
fresh N.W.
Bar. 29.40

Oct. 21 / Set Storm Blk.
 7¹⁰ Clear + Calm Bar. 29.60
 12⁰⁰ Am. mist Blk.
 Sight N.W. + Clear
 2¹⁰ Sause Bay, Sight N.W. + Clear
 3¹⁰ (1) 1500 lb. flounder, hung
 upon rock.
 3²⁰ (2) net snagged, picked
 up at once
 4³⁵ } (3) Bay of mist Blk.
 5¹⁰ } nothing but scrub.
 5³⁰ set gill nets
 5⁴⁰ Alongside Sundeley
 Clear Calm Bar. 29.50

Oct. 22 / weather mod. N.W. + Clear
 7⁰⁰ Bar. 29.45
 7⁴⁰ Set mist Blk. St. to mod
 N.W. + Clear.
 9⁰⁰ (1) net snagged. got out
 9²⁰ }
 10⁰⁰ (2) net snagged north
 11⁰⁰ } Had to quit net low
 too badly to work.
 11⁵ Am. Sundeley mist Blk.
 7⁵⁵ p. Set mist mod N.W. + Clear.
 12¹⁰ a Contacted Stern in
 Korovin Bay
 Fresh N.W. + Clear
 3³⁵ a Am. Sundeley fresh N.W. + Clear

Oct. 22

3 $\frac{35}{-}$ p.

Surr mist Bh.

Clear + Calm, 29:50

4 $\frac{35}{-}$ p.

Anchored - Portage
Bay, Shepovak

Clear + Calm very light

N. Bar. 29:30

Oct. 24

Weather Light N by
breeze + clear

Bar. 29:42

7 $\frac{45}{-}$
8 $\frac{50}{-}$

① hot but few flukes
+ red. + 2 white

9 $\frac{10}{-}$
10 $\frac{40}{-}$

② few red + red
snuff.

11 $\frac{00}{-}$
11 $\frac{40}{-}$

③ 15 red snuff
red + white 2
black red.

12 $\frac{10}{-}$
12 $\frac{35}{-}$

④ net snagged.
had hole

1 $\frac{50}{-}$
2 $\frac{05}{-}$

⑤ net snagged
had to repair

5 $\frac{00}{-}$
6 $\frac{00}{-}$

⑥ Lots of red snuff
no crabs.

7 $\frac{08}{-}$

Anchored head of
Bay 25 fms.

cloudy + St. W.

Breeze Bar. 29:50

Oct.
25

7⁰⁰

7³⁰

Weather Clear + Cal
quite Cold Bar. 29:46

Surr. Stationed
Clear + Cal

11⁴⁰

12³⁰

① net mtdy but scrub
in net.

12⁴

Arr. Sand Pt for water
Clear + St. N. E.

4⁴⁰

5⁵⁵

② net mtdy but ^{zone} bottom
scrub.
for Sand Pt. 4⁴⁰
+ 5⁵⁵ Id

6³⁰

alongside dock Square
Hr. Bar. 29:20
St. N. W. + Clear

Oct 26

7⁰⁰

7⁴⁷

8¹⁰

8⁴⁵

Shy over cast fresh
N.W. Bar. 28:94
Surr Square Hr.

① net mtdy.
mtdy but Bar. scrub

9⁰⁰

left for Square Hr.
to refuel net

5²⁰

Surr Square Hr. after
load oil
Heavy N.W. Bar. 28:60
+ cloudy

10¹⁵

Arr. alongside Indole
Heavy W.N.W. Strong squalls
Bar. 29:60.

If believed could have
could not see to and
why not gill net I
had said had. then
he would have to say
then as must. fish
was as I was
through now.

Oct. 27

800 a.m. weather =

Sk. overcast S. N. W.

Bar. 28.85

840

moved out fish wh

gill net

not in the

[couple shales +

bottom rocks, no

shale eaten by anph -

fish]

1015

a.m.

anchored in Rth.

cloudy S. R. Rain

in 1 hour

Oct. 28

4 a.m.

weather clear.

calm B. 29.22

630 a.

mor S. N. W. clear

S. W. N. W. & clear

745 a

fish wh up Sch. in

left for Cable Rth.

1215 p.

①

few red cod

subur & fish

120 p.

p.

shrimp

clear + Cal

Bar. 29.20

700

p.m.

Anchored in water

near Bay off Village

clear + Cal. very

still Bar. 29.22

Oct. 29. Bar. 29.32

7⁰⁰ a.m.

Weather Clear & Calm

7⁵⁰ left

Interjama Bay.

10⁴⁰

11⁴⁰

① 65 fms. her Son
1 dog fish

12⁰⁰

Left for Cattle Bay
Clear & Cal.
refined net
Cattle Bay.

3⁴⁵

4³⁵

② fished cod 1 spider
crab.

5²⁵

6⁰⁰

② in N.W. arm
Cattle Bay.
flounder, cod & Balibut

6³⁰

Underway for Alulata.

Clear & Cal Bar. 29.40

~~Oct. 30~~

12²⁰

6⁰⁰ a.m.

7⁰⁰ a.m.

~~Clear & Cal~~
~~scattered mackerel, up from N.W.~~
~~Dove for 20 mixed~~
~~gear & hook doves~~

quite fresh

7³⁵

Underway

Heavy N.N.W.

9²⁰

a.m.

Very Heavy N.W.

dd do do to 1055

1²⁰

p.m.

C.C. for Cape Califate
wind force moderate
mod N.W. & Cloudy

1⁵⁰

Shredge notes - ①

Oct. 10 - 2nd haul. 1 1/2 tons flounder

Cold Bay. 25 fms deep at end.

half of haul stumpy flounders.

2nd haul about a few lemon sole; some purple
2-3 Chionoecetes; no anemones. starfish

Oct. 10 Finding of large crab due to Trafton Fla
Cold Bay of attacking Bay. was surprised that
soft mud could carry king crabs.

Oct. 10 first haul, some stumpy flounder +
Cold Bay some very large herring.

1st haul. 17 ♀ 8 ♂ Chionoecetes 1st haul

Oct. 11 1st. Haul up near head Cold Bay.
one 8-9 inch King Crab.

800-900 - ca 9 inch yellow tail sole in 1st

catch about as nearly a ton of fish.

15-16-1700 lbs fish.

marketable grey sole, yellow sole, some flounder.
bulk of haul yellow tail.

Oct. 11 2nd haul got very little
25-11 fms at end of bottom sample in 11 fms. at end of haul
few flounders of kind taken before.

3d haul started in 15 fms.

Oct. 11 Picked up 1st ^{haul} net + set second in 15 mins

Rain and wind squall came up in about 15 mins
right at 11 o'clock so hauled net in a jiffy.

Shedye Notes (2)

Oct. 15.

65-40 (=2nd haul) one lemon sole
42 ♂ 4 ♀ Chionoecetes (ca. 50 ♂, 8-10 ♀ all told)

66-40 Half doz lemon sole

Oct. 17. 1 net first haul # 69

Oct. 18 #75 got quite a number of small rubber
fist machines; very much like haul #
17th, very small haul. Lemon rays
"clean bottom."

Oct. 24. 2 ³⁰p.m. net came up badly torn
had to be mended, drifted about while
drying.
Small hauls this day; deepest one was
a red snapper haul

Oct. 24 wires (crossed) tangled; fixed by 5 p.m.
Oct. 24 (Cove Bay) 7.28 a.m. @ 13 fms. Main 9.38 and 8.8.
Upper end

Oct. 31. not much over 100 lbs in any haul
this day up to 2 p.m., mostly less than
that

King crabs; records of ①

was fishing Dungeness crabs here

Nov. 2

Picked up King crabs on shore of Glacier Bay in Jan & Feb. (Frank Nov. 2)
[also April 2, in 8-9 hrs, thought he was late for King crab, west side of Glacier Bay (millions of spider crabs)]

Day St. bet. Auntie Star Point Harbor
20 large crabs for Dungeness, got couple of dozen King crabs. (Frank. Nov. 2)

Sept. 11
Diary

Slater, old experienced (wise) Alaska country man, now captain at Squaw Hbr. says about Kodiak crabs are known to be in whole Passage ^(crabs galore) from Creek bet. Whale Pass and Kodiak (town), between Sagores Senior Bay (especially) and Raftery St. and arm of latter to north.

Nov 30

Said to occur in Red Bluff Bay in late fall by Postmaster at Warm Springs Bay also at Hornum Sound (? all year round)
Kitchen anchorage, Priest at Belknap & Shafter.

Oct. 9. Tomas Dobson, King Cove says crabs are in Banjo Bay adjacent to Dora Hbr. (sep. from Dora Hbr. by Bird Id. [does he mean Otter Cove?])
in July - Aug. = "summer months." (drew me a sketch from memory (in notes))

Oct. 10 Off Asper of Terny got King crabs in Shelbott St. Dined there with Helen.

King crabs, records of (2)

Chief of Sandelegg (Kinger) believes crabs frequent rocky bottom. Has seen them later on rocky bot. east of Sandale Id in July while halibut fishing (? with Nelson's brother)

Nov. 12. (Fide Henton) King crabs are found Head of Headman's Bay - Alutka 8 fms. Raspberry Strait, Eagle Abr. Uyak Geese Id. etc.

Nov. 30 above. Priest at Belkofsky told Trafton of King crabs in Kitchen Anchorage; but Nelson said it was of no consequence, but it was ^{same priest that put him on to Canoe Bay in}

Thed Porter at Petersburg says ^{first place} at Killough Id. Glacier Bay Id. etc. and Shumna Bay (Saw two crabs from Shumna Bay with males, brought in night of Sunday Dec. 1 for 60 fms. over ground for 20 ft to be of much use crab gives me. Ohmer promised to keep record of crabs brought in, for me. Write him about it

King crabs: (3)

Oct. 17 May a number in Seneca & Cold
Bays in great numbers in right
season. (now Oct. 17 shaggy
1 per barrel)

Nov. 12 Man named Vincent on
Woody Island near Kodiak is said
to have canned King crabs. { side
Herring
Smelt.

King crabs - Bering Sea

Oct. 18

Drafting's good haul

June 2 - 1940; 23 miles N.W. of
Cape Semarin, above Port Moller.

(June 4, hauls 15 miles N.W. Port
Moller 10,000 lbs. flounder, starfish
and lots of crabs; lots of medium
sized crabs)

Oct. 18

June 6, 1st tow 25-30 fms. between
Black Hills and Nelson Sugarco, lots
and lots of crabs. ("couple of tons of crabs")
600 crabs at least half as many in
haul before both hauls 1 hr. 5 mins.

Oct. 28 In Bering Sea it would appear
that crab fishing is better at end
of June than before; will be getting
there (according to present plans) before ber
time. (Too early to justify canner)
(better late year after year at all)

King crab observations:

Nov. 4. { (Ralph Brown) got three soft crabs a month ago, [in Sept?]} Cans several cases of King crabs for my + friends use, at Olga Bay.
Come up on beach 2 + 3 deep in January, believes they ^{may be} making them
Says three weeks ago got nice lot of crabs in traps.

Oct 31 { Crabs are in Olga Bay all summer less in winter. Not in Alitka in summer but here in winter (Earle Brown)
Spoke of 8 foot [? footed crabs]
Best crab fishing after Christmas

Oct. 29 Crabs better in Bering Sea at
(*) End of June than earlier, expected will tend to arrive in B.S. just before best season. [Too early to justify summer, better late year after or at all.]

Nov. 12. Man named Vincent on Woody Island near Kodiak is said to have canned King crabs. {Fide Henton
or Herring
Sumerlin
Sumerlin

King crabs have been reported from

Thomas Bay (Ohmer, Porter)
Hoonan Sound (Postmaster at Warm Springs)
Red Bluff Bay " "
Icy Strait (Ohmer, Porter)
Willoughby Id. " "
Glacier Bay " "
Yakutat (Harrington, Amer. Bur. Ethnology)
Cook Inlet (McMillin, Wallace)
Prince William Sound (Simpler)
Skelikof St.

Kodiak:

Eagle Harbor (Stalker)
Seal Bay ? (via Trafton ?)
Whale Pass (Stalker)
Iron Creek, bet. Whale Pass and town of Kodiak (Stalker)
Woody Island. (Man named Vincent said to have canned
king crabs here. Sumerlin.)
Terror Bay (Stalker, Henton)
Nelson Lagoon (Stalker)
Raspberry St. (Stalker, Henton)
Karluk (Henton)
Uyak Bay (Henton)
Geese Ids. St. (Henton)
Alitak
Olga, and Moser Bay
Deadman's Bay (Henton)
Pavlof Bay (Nelsen, Slaughter)
Canoe Bay, off Pavlof
Kitchen Anchorage, off Belkofski Bay (Hotovitski)
Cold Bay
Lenard Hbr., off Cold Bay
Banjo Bay, adjacent to Dora Hbr. (Dotson)
Bay of Waterfalls, Kanaga (or Tanaga) Id., Western
Aleutians (V. Scheffer)
Bering Sea, off Black Hills (Trafton)
Herendeen Bay, Port Moller (Nelsen, Slaughter)

Zachar Bay Dungeness Tide Barnaby



Iron Creek
River

hence fine passage down
~~Seattle~~ Best regards

Schmitt

King crabs have been reported from

Thomas Bay (Okmer) - Porter

Adonan Sound (Portmanter, at
Red Bluff Bay warm springs)

Willoughby Id.,
Gey Strait? (Okmer) - Porter
Glacier Bay

Dakutai (Harrington)

Cook Inlet (McMillin, Wallace)

Prince William Sound (Simpler)

Shelikof St.

Kodiak: Eagle Abr. (Stalker)

Seal Bay? ^{via} (Snafin?)

Whale Pass (Stalker)

Chon Creek bet. Whale Pass and
Town of Kodiak (Stalker)

Woody Island (man named
Vincent said to have caught
King crabs here, & Sumner)

Nelson Lagoon (Stalker)

Terror Bay } (Stalker
Henton)

Karluk (Henton)

Raspberry St. } (Henton)

Uyak Bay } (Henton)

Geese Ids. St. }

Alitak

Olga, sd Inver Bay

Headman's Bay (Henton)

Parlof Bay (Helsen, Slaughter)
Canoe Bay, off Parlof (Hotoyitski)
Kitchen Anchorage, off Belkofski Bay
Cold Bay
Senard Abr., off Cold Bay (Dotson)
Banjo Bay, adjacent to Flora Abr.
Bay of Waterfalls, Kanaga (or Tanaga)
Id., western Aleutians (V. Sheffer)
Bering Sea, off Black Hills (Crofton)
Herendeen Bay, Putnoller (Helsen, Slaughter)

Schw. 11 (1)

YEARLY LIST OF JAPANESE FLOATING CRAB CANNERIES
OPERATING IN ALASKAN WATERS

| Year | Ship | Period of time | Localities |
|------|--------------------------------------|--|--|
| 1930 | Taihoku Maru | June - August | Port Moller |
| | Japanese Trawler | August | " |
| | Supply Ship | | " |
| | Hakuyo Maru ^ | June | " |
| | Kokusai Maru | August (may be above reported trawler) | " |
| | Hakuho Maru | June | Aleutian Islands |
| 1931 | Nagato Maru | Spring? June-August | Off Unimak and Amak Island in connection Aleutians with Good-Will flight |
| | Kokusai Maru | | |
| 1932 | Nagato Maru | U.S.C.G. May-Sept (H.G. Hamlet) | { Bristol Bay (off Amak Island) |
| | Supply Ship | | |
| | Seiten Maru ^ | | |
| | auxileries, Kasuga Maru and Ise Maru | | |
| 1933 | Taihoku Maru | May, June, Aug.? | Port Moller |
| | Shoshe Maru | May- June | Amak Island & Cape Seniavin |
| | Kasada Maru | June-July-Aug. (Radio) | { Port Moller (Nelsons Lagoon) |
| | Shinano Maru | August | St. Paul Island |
| | Aki Maru | July | Bristol Bay |
| | Kokusai Maru | July | Bristol Bay |
| 1934 | Toten Maru (Nagato Maru) | May-July | May 15-June 11 Isanotski Str.- below Port Heiden |
| | Kitami Maru | May- June | July St. Paul Island (Port Moller) off Kudobin Islands |
| | Adzuchi Maru | " " | " " " |
| | Kasada Maru | " " | " " " |
| | Hakuyo Maru | June | Port Moller |
| | Taihoku Maru | May-June | " " |
| 1935 | Taihoku Maru | May-June | Black Hill- Nelson Lagoon |
| | Ryokai Maru | May | Bering Sea |
| | Hakuyo Maru | Summer | Bering Sea-Bristol Bay |
| | Hakuho Maru | June-July | Aleutians & Pribilof |
| | | | |

YEARLY LIST OF JAPANESE FLOATING CRAB CANNERIES
OPERATING IN ALASKAN WATERS

| Year | Ship | Period of time | Localities |
|------|--|----------------|--|
| 1936 | Toten Maru | June | Port Moller-Pribilof |
| | | | 100 miles S.E. |
| | Chichibu Maru?crabs | June | Pribilof Islands |
| | Taihoku Maru | June-July | Baird Bank (Black hill) |
| | | | North of Pribilof |
| | Ryokai Maru | June | Komandorsky Islands |
| 1937 | Tenyo Maru | July | Bristol Bay-studying salmon routes |
| | Hakuyo Maru | | Annual cruise to Bering Sea |
| | Taihoku Maru | June-July | Off Black Hill |
| | | | " Kudiakof Island |
| | Toten Maru | June-July | Port Moller |
| | Taiyo Maru | July | Nashagak-off Black Hill |
| 1938 | Hakuyo Maru | Summer | Annual cruise-Bering Sea-St. Paul Island |
| | | | July 8 |
| | Kahoku Maru | June | |
| | | | |
| 1939 | Toten Maru | May | Bristol Bay |
| | Taisei Maru | April-May | " " |
| 1939 | 3 unidentified ships- St. Lawrence Island. Gambell Pt. | | ^ |
| | 4 Jap fishing boats | Sept. 4 | Westward St. Lawrence Island |
| | | | |

LIST OF JAPANESE SHIPS REPORTED TO HAVE FISHED KING CRABS
IN ALASKAN WATERS

TOTEN MARU formerly Nagato Maru of Fuchu. Hayashi Kane Shoten
Nagato Maru Gross tonnage 3823, length 356', width 45.2', depth 18.7' Nippon Suisan K.K.

| Date | Locality | Chart No. | Gear | Reported by whom | Additional notes |
|---|---|-----------|---|---|--|
| <i>as Nagato Maru</i> | | | | | |
| June 28, 1931 | 10 miles below Cape Mordvinof | 7 | | Bering Sea Patrol- U.S.C.G. | Fishing Spring to August |
| June 28, 1931 | 5 miles off Uminak Island Lat. 54°50' N, 164°45' W. | | | U.S.C.G. Also Capt. Hendersen Steamer Starr | April 17, 1931 reported sailing by R.S. Miller, Div. of Far Eastern Affairs |
| August 1, 1931 | 6 miles off Amak Island, 30 fathom | 8 | No. of small launches and mother ship | U.S.C.G. | |
| " 4, 1931 | 4-6 miles " " " | 10 | Net 3 miles long | Chirikof, Alaska Packers | |
| June 18, 1932 | 10½ miles north of Amak Isl. 42 fathoms | 10 | 9-30' boats | U.S.C.G. | Fished May-Sept-See additional reports from Montgomery and Itasca- No. 1 & 2 |
| May 8, 1932 | 13 miles N.W. Amak Isl. | 9 | Tenders | U.S.B.F. Crane | |
| June 23, 1932 | 20 miles N.E. Black Hill | 11 | | U.S.C.G. Montgomery | |
| <i>as Toten Maru</i> TOTEN MARU | | | | | |
| May 15, 1934 | 10 miles off Isanotski Str. Lat 55°14' N Long. 162°22' W | 28 | 8 tenders, 3 loaded with crab | U.S.C.G. Tahoe | See additional Coast Guard Report (No. 3) |
| May 23, 1934 | Same region, Lat. 55°N. Long. 163°32'W | 29 | 8 tenders hauling nets | U.S.C.G. | Many crabs taken |
| June 11, 1934 | Lat. 55°42'N Long. 162°40'W | 30 | | U.S.C.G. | |
| July 22, 1934 | Lat. 57°01'N Long. 169°40'W 21 miles E. of St Paul Isl. | 31 | | U.S.C.G. | See additional Coast Guard Coast Guard Report (No. 4) ANCHORED |
| June 10, 1936 | Lat 56°35'N. Long. 160°45'W. Port Moller | 39 | 3 accessory motor boats 45-80 tons | | Numerous crab net buoys |
| June 23, 1936 | Lat 57°35'N. Long. 169°55'W. | | Japanese freighter Sekino Maru, all gear aboard | U.S.C.G. Cyane | May be seen apply ship to Toten Maru |

| Date | Locality | Chart No. | Gear | Reported by whom | Additional notes |
|---------------|--|-----------|--|---------------------------|--|
| June 7, 1937 | Lat. 56°14'N. Long. 161°16'W. Lat. 56°35'N. Long. 161°34'W. | 47 | 8 launches-crab ^{pot} planter 90' vessel | U.S.C.G. Cyane | |
| July 9, 1937 | Lat. 55°56'N. Long. 161°55'W. | 49 | 8 launches, one 90' 11 crab pot planters | U.S.C.G. Samuel D. Ingham | |
| May 13, 1938 | Lat. 56°28'N. Long. 161°06'W. | 60 | 3-50' trawlers-10 launches about 30'-Numerous crab net markers-Area covered 240 sq. miles. Last marker 8 miles | U.S.C.G. | |
| May 16, 1938 | Lat. 56°13' N. Long. 160°55'W. | 61 | | U.S.C.G. Alert | Off Cape Kutuzof. |
| June 12, 1938 | 9 miles west of Garfields Bay 55 55'N. Long. 162 04'W | 57 | 3 large and 9 small launches | U.S.C.G. Alert | Nets previously seen near beach now moved further west. 6 miles offshore. |
| June 7, 1938 | Lat. 56°02'N. Long. 161°44'W. 9 miles offshore | 56 | 3 diesel tenders and 10 gasoline powered crab boats. | U.S.C.G. Alert | Nearest net 3½ miles offshore. |
| June 24, 1938 | Lat. 56°29' N. Long. 160°56'W. 20 miles off Kutuzok | 58 | | U.S.C.G. | {All nets within ^{sight} site of cannery. Toten Maru departed. |
| June 29, 1938 | | 59 | | U.S.C.G. | |
| May 7, 1939 | Operation between Lat. 55°57'N and 160°30'W and and 168°long. Reported anchored in 56°22'N Lat. 161°21' W. Long. | 60 | 3 self-navigating boats also 10 small craft, carried on board | Japanese Ambassador | U.S.C.G. reported ship in 56°22' W. Lat. 161°21' W. Long., Bristol Bay within the zone designated by the Japanese Government. |

⑥+
⑦

Report No. 2

Excerpt from Report of Itasca, Sept. 16, 1932(601-611) from Coast Guard
Commandant to Commissioner of Fisheries. O.P.-611-601.

Nagato Maru sighted anchored N.E. of Amak Island cruised in vicinity sampans. Reports 8 sampans 30'-40'. Crew about 10 men, hawl nets; two larger sampans are constantly setting out the nets. Nets approx. 250 fathoms long, about 10' wide suspended by a hauling line buoyed at the top by green glass balls 3" in diameter. Net weighed to bottom with stone or cement weights. A capstan device from the engine in the fishing sampan brings in the nets. Fishermen start at 3:00 A.M. 30 nets per day. No bait used. Necessary often to cut net to free crabs. \$100,000 estimated by Captain invested in nets. Nets cost \$2.50 are repaired on board by a repair force. Jellyfish coming in contact with the nets rotted the line. 1st part of May- June 23, 11,000 cases.

Three fishing grounds used by the Nagato Maru. 1st, 10 or 12 miles west of Amak Island. Middle ground, 35 miles N.E. of Amak Island and third about 12-15 miles north of Port Moller. Nets not more than three miles from shore.

No incentive 25-30 fath. provide the best fishing. The Nagato Maru fishes the first ground deemed best, for about 4 days, then middle ground for one day, then moves to the Port Moller grounds for about 2 days, then back to middle ground for one day and back to Amak Island grounds, completing the cycle.

Best fishing is obtained immediately after a period of rough weather, the action of the sea appearing to stir the crabs to activity.

An inspection of the actual process packing fresh crab meat was observed aboard the Nagato Maru. Cans subjected to two steam baths at high temperatures. 1 under pressure.

Nagato Maru crew approx. 400 engaged in fishing for 6 months out of the year.

H. G. Hamlet

TOTEN MARU

June 12, 1938 55°55' N, 162°04' W. 9 miles west of Garfields Bay.
3 large and 9 small launches near Mother ship. Nets previously seen
near beach. Now moved further west. Nets 6 miles offshore. 1 Japanese
35' launch, 2 large salmon in work bench. Tele U.S.C.G. Alert, June
14, 1938.

June 7, 1938. 56°02' N 161°44' W. 9 miles off shore vicinity Nelson
Lagoon. 3 diesel tenders, 10 gasoline powered crab boats. Nearest crab
nets 3½ miles offshore. Contacted Capt. Shields of Sophie Christensen
American Cod fisherman who intimated news concerning shipment of rifles
were released for publicity purposes only to further campaign against
alien fishermen. No actual shipment of rifles will be made. U.S.C.G.
June 7, Alert. Capt. J. F. Shields letter of June¹⁹ telling of Jap
fishing activities

TOTEN MARU 56°29' 160° 56' 20 miles off Kutuzof, June 24, 1938.
All Crab Nets within sight of her. U.S.C.G.
June 29, TOTEN MARU departed. U.S.C.G., June 29, 1938.

May 7, 1939, 56°22', 161°21' W. Bristol Bay.

Japanese Ambassador notified the State Department that the Toten Maru
arrived at the fishing ground in the Bering Sea with 3 self-navigating boats
also ten small craft carried on board. Operations would terminate the
middle of May. Fishing would be exclusively for crabs. Principal place
of operation would be ~~that~~ the open sea between 55°57' N. and 160°30' and
168° long. Above position within this area.

Assistant Secretary Patterson

From C. E. Jackson
Acting Commissioner.

KOKUSAI MARU: 259 Gross tonnage, 117.8' Length, 23' beam, 12.7' draws. International Fishing Co., Tokyo.
Kokusai Kosen Gyogyo K.K.

| Date | Locality | Chart No. | Gear | Reported by: | Additional notes. |
|----------------|--------------------------------------|-----------|----------|-----------------|--|
| Sept. 12, 1930 | Port Moller | 6 | 4 trawls | | had 300 lbs. crab. |
| Aug. 12, 1933 | 8 mi. off N.E. Pt. St. Paul Island. | | | U.S.C.G. | Crew of 25. |
| Aug. 13, 1933 | 10 mi. off N.E. Pt. St. Paul Island. | 27 | Trawler | U.S.C.G. | Detained at Dutch Harbor. A few crabs on board. Survey ship. |
| | | | | | Reached Attu 5/2/31. Schroeder, Coast Guard. |
| | | | | U.S.C.G. Chelan | Tender to Shinano Maru. Chelan 2 reports, 1933. |

AKI MARU:

| | | |
|---------------|--|----|
| July 31, 1933 | 60 mi. S.W. Cape Constantine Bristol Bay. | 26 |
|---------------|--|----|

(=)

HAKUHO MARU: Scouting ship. Japanese dept. Agriculture & Forestry. 129.9' Length, 24.7' Beam, 13.7' depth.

| Date | Locality | Chart No. | Gear | Reported by: | Additional notes |
|------------------|------------------|-----------|------|---------------------|-------------------------------------|
| June 1933 | Aleutian Islands | | | | Study migration route of fur seals. |
| July 10-20, 1935 | Pribilof Islands | | | | Studying fur seal. |
| May 29, 1938 | Atka | | | U.S.C.G. Spencer | |
| June-July | Aleutians | | | Fred Schroeder | |
| June 29, 1930 | Attu. | | | | |

Habuko.

SHINANO MARU: 6,155 gross ton. 5,395 net tons.

Kinka Yusen K. K.

| Date | Locality | Chart No. | Gear | Reported by: | Additional notes. |
|--|---|-----------|--|---|---|
| Aug. 13, 1933 | 57°19' N. Lat. 169°48' W. Long. 10 mi. off N.E. Pt. St. Paul Island. | 25 | 1 small tender laying nets, another hauling nets which yielded many crabs. | C.G.C. Alert | |
| Aug. 12, 1933 | St. Paul Island, bearing 258° true - 20 miles. 35-40 fathoms | | Mixed crew. 9 crab boats, one tender. Kokusai Maru. Nets in sections, approx. 50' long, 15' deep. 5 fish nets, total length 2 miles. | Chelan, from report of J. A. Alger. | Nets in all cases were laid with the current. |
| RYOKAI MARU: 4665 Gross Tonnage. 380' long. 49' beam, draws 26.4' · Nippon Suisan K.K. | | | | | |
| May 6, 1935 | 57°5' N. Lat. 169°52' W. Long. | 37 | | | |
| June 1936 | Komandorsky Islands. Underway. | | | Capt. Hakuyo Maru to officer of Cyane, Kiska Harbor, June 13. | |
| | | | Used primarily in reduction of fish oil and meal. Accompanied by 3 accessory trawlers 398 tons each, 8 sea- bottom seine motor boats, 38 tons each. 3 accessory motor boats 44-80 tons. | Alaska fishery & Fur Indust. W. T. Bower. P. 46. | |

SHOHEI MARU: 7256 Gross tonnage, Length 437', Width 58', Depth 35'. Shimatankian K.K. 1933.

| Date | Locality | Chart No. | Gear | Reported by: | Additional notes. |
|---------------|---|-----------|--|-----------------|----------------------------------|
| May 17, 1933 | 5 mi. off Isanotski Str. 56°44' N. Lat., 163°20' W. Long. | 15 | 2 boats. 15 buoys | U.S.C.G. Alert. | 8 buoys 5 miles off Amak Island. |
| May 23, 1933 | 55°38' No. Lat., 162°46' W. Long. 7 miles N.E. of Kudiakof Island. | 16 | 7 tenders setting traps. | U.S.C.G. Alert | |
| June 15, '33 | 12 miles off Port Moller. | 17 | | " " " | |
| June 29, 1933 | 56°57' N. Lat., 159°50' W. Long. 22 mi. off Unangashik. | 18 | 5 small motor tenders working crab nets in vicinity. | " " " | |
| July 31, 1933 | off Port Heiden, Bristol Bay. | 19 | | " " Chelan | See note 1. |

(14)

KASADO MARU: 400.5' Long, Beam 50.4', draws 19.0' Nippon Yusen K. K.

| Date | Locality | Chart No. | Gear | Reported by: | Additional notes. |
|---------------|---|-----------|---|--------------|-------------------|
| June 14, 1933 | 56°0' N. Lat., 161°56' W. Long. 158 mi. off Lagoon Point | 20 | | U.S.C.G. | |
| June 25, 1933 | 27 mi. off Port Moller | 21 | | U.S.C.G. | |
| June 28, 1933 | 56°10' N. Lat. 161°20' W. Long. 5 mi. off Kudobin Island | 22 | | U.S.C.G. | |
| June 30, 1933 | 55°44' N. Lat. 162°5' W. Long. 12 mi. off Black Hill. | 23 | 3 steam trawlers | U.S.C.G. | |
| July 3, 1933 | 55°59' N. Lat. 162° W. Long. 7 mi. N.E. of Black Hill | 24 | 3 " " | | |
| May 25, 1934 | 56°20' N. Lat. 161°45' W. Long. 25 mi. off Kudobin Island. | 32 | 2 diesel trawlers were operating in vicinity. Kitami and Azuchi, using beam trawls. | U.S.C.G. | Ship anchored. |
| June 11, 1934 | 22 mi. off Kudobin Island. | 33 | 3 ships together. | U.S.C.G. | |
| June 22, 1934 | 56°18' N. Lat. 161°20' W. Long. | 34 | 4 steam trawler type. | U.S.C.G. | |

KAHOKU MARU: Gross tonnage 3,311, Length 336.6', width 48.5', depth 24'. Dairen Kirsen K. K.
 (?May have been ~~Taihoku~~ Maru.)

Taihoku

| Date | Locality | Chart No. | Gear | Reported by: | Additional notes |
|------|----------|-----------|------|--------------|------------------|
|------|----------|-----------|------|--------------|------------------|

| | | | | | |
|--------------|----------------------------------|--|-------------|----------|--|
| June 9, 1937 | 55°58' N. Lat., 162°09' W. Long. | | 11 trawlers | U.S.C.G. | |
|--------------|----------------------------------|--|-------------|----------|--|

SHUNKOTSU MARU: 160 gross ton.?

July 29, 1932 Sailed from Kamchatka.

Survey operations of
 Nogato Maru, Government
 Patrol boat.

TENYO MARU: of Shomonoseki. 658 gross tonnage. Length 175.5', width 30.5', depth 16.4'. Hayashikane Shoten K.K.

July 20, 1936 57°55' N. Lat. 158°15' W. Long.
 Bristol Bay.

69 One 75' crab trawler. U.S.C.G.
 Alert.

Anchored.

TAIHOKU MARU: 7,834 net tons. 8,252 gross. 483.6' Length. 57' width. 32.7' depth. U.S.C.G. reported owned Nippon Kosein Kaisha Lloyds 1939-40. Shinko Suisan.

| Date | Locality | Chart No. | Gear | Reported by: | Additional notes. |
|----------------|--|-----------|---|---|--|
| June 30, 1930 | 56°18' N. Lat. 161°32' W. Long. Port Moller. 17 mi. Nelson's Lagoon. 37 fathoms. | 1 | | U.S.C.G. Chelan | Crew 300 |
| July 4, 1930 | 56°20' N. Lat. 161°17' W. Long. 17 miles off Port Moller. | 2 | Using nets. 6 tenders | " " | { Moved from position of June 30 to one of July 4 over this period of time. |
| July 28, 1930 | " " " " | 3 | | " " | |
| August 14, '30 | 56°20' N. Lat. 161°07' W. Long. 15 miles offshore | 4 | 1 tender, 7 launches. | " " | |
| May 17, 1933 | 56°09' N. Lat. 161°21' W. Long. 5 mi. off Kudobin Island | 12 | Numerous tenders | U.S.C.G. Alert. | May 23, 53°56' N. Lat. 162°09' W. Long. 12 mi. off Black Hill |
| June 14, 1933 | 5 mi. West Cape Seniavin | 13 | | | Probably one mistaken locality. |
| " " " | 18 mi. off Lagoon Point | 14 | | | { August, present in Bering Sea, reported by Chelan, picked up her radio. |
| May 25, 1934 | 56°14' N. Lat. 161° W. Long. 20-25 mi. off Port Moller. | 66 | | | |
| June 11, 1934 | " " " " | 67 | | | |
| June 12, 1934 | 56°25' N. Lat. 160°51' W. Long. | 68 | | U.S.C.G. Haide. | |
| May 6-10, '35 | 56°42' N. Lat. 162°40' W. Long. | 36 | 11 beam trawlers dragging for ground fish. 25 fathoms. | U.S.C.G. Calypso. | See note I, Ewing report, 1935. |
| June 9, 1935 | 55°55' N. Lat. Long 162°36' W. | 40 | 4 sea bottom seine motor boats 88 tons. 3 trawlers, 398 tons 2 trawlers, 388 tons. | As reported by Capt. of Hakuyo Maru to Officer of Cyane, Kiska Harbor. | |

(This belongs to July 7 next sheet

7
TAIHOKU MARU: Continued.

| Date | Locality | Chart No. | Gear | Reported by: | Additional notes. |
|---------------|---|-----------|--|--------------|--|
| July 3, 1936 | 58°14' N. Lat. 168°20' 30" W. Long. | 41 | Fleet Toki Maru, Extract from Hokkai Maru, Yuki U.S.C.G. patrol Maru, Tai-hoko Maru, boat Teshio Maru, HaKurei "Daphne." Maru. 24 trawlers. | | Taihoku Maru appeared to be operating as a fish reduction plant. 4 small trawlers having no English names are engaged in crabbing. Canned crab meat, beside the reduction of fish. |
| July 7, 1936 | Bristol Bay. | | | | |
| July 23, 1936 | 58°13' N. Lat. 168°26' W. Long. | 42 | Six large trawlers, U.S.C.G. 2-masted motor ships about 160' long. 4 crab trawlers, 2-masted, oil, screws, 75' long. | | |
| June 3, 1937 | 55°59' N. Lat. 162°09' W. Lat. | 45 | 11 trawlers 75' - 150' U.S.C.G. Cyane | | Anchored. |
| July 3, 1937 | Approx. 56°02' N. Lat. 162°35' W. Long. | 46 | 12 trawlers working in conjunction with canning vessel. Extract. | U.S.C.G. | |
| | | | Within a radius of 5 miles, were ten smaller vessels. 2 approx. 165' in length, 550 tons displacement. Hokkai Maru and Toka Maru. 8 smaller vessels--names in Japanese letters. No. 1-8 approx. 90' in length, 200 ton displacement. Worked in pairs dragging huge nets. | | |

(13)

TAISEI MARU 3601 gross tonnage Length 341' beam 46.7' depth 26' Naigai Kaisen K.K.

| Date | Locality | Chart No. | Gear | Reported by whom | Additional notes |
|--------------|--|-----------|------|------------------|---|
| May 11, 1931 | Cape Sarichef, Alaska reports ship in area. Entire month of April 24,000 ton vessels, left Black Hill, other north of Amak Island | | | U.S.C.G. Duane | Reports beliefs based on intercepts that above named ship has been in area entire month of April. |

TAIYO MARU Gross tonnage 1445 length 560' width 65.3' depth 31.21' Nippon Yusen K.K.

| | | | | | |
|--------------|---|----|------------------------------|-----------------|---|
| July 7, 1937 | 10 miles west off Ugashik | 52 | Working nets 2 miles long | U.S.C.G. Ingham | Believed to be govern- ment owned. |
| July 1, 1937 | Lat. 57 46'N Long. 158 16' W. Nushagak | 50 | | | |
| July 4, 1937 | Lat. near 56°00N. Long. 162°30'W. | 51 | | U.S.C.G. Ingham | The Taiyo Maru was employed in Bering Sea waters for the first time in 1937 apparently continuing the studies of the routes and avail- ability of salmon in offshore waters, begun by Tenyo Maru in 1936. |

HAKUYO MARU Japanese Government Training Ship. Imperial Fisheries Institute
Lloyds 225' length 36' beam depth 20' length 230' water line beam 35' draft 12-15' twin screw 700 horse, 12 knots.

| Date | Locality | Chart No. | Gear | Reported by whom | Additional Notes |
|--|--|------------------|---------------------------------|---|--|
| June 20, 1930 Aug. 4, 1933 | Lat. 56°08'N. Long. 161°32' W.↗ <u>Port Moller</u> East Landing St Paul | 5 | | U.S.C.G. | Study fur seal |
| June 11, 1934 June 8, 1935 Summer 1936 | 56°15'N. Lat. 161°05' W. Long. 5 miles off mouth of Ugashik River. Annual cruise | 35 | | U.S.C.G. U.S.C.G. Alert | { Photographic copy of schedule of vessel |
| June 7, 1937 June 9, 1937 July 8, 1937 | 55°55'N Lat. 161°55' W. Long. 55°56'N Lat. 161°55'W. Long 57°45'N. Lat. 158°16'N Long. | 53 54/7 55 | Motor boat and hand gill net | U.S.C.G. Cyane " " " " ? | { July 31 from Cyane report June 13, 1936 Fishing salmon |
| July 3-4, 1937 | 4 miles NW of fishing vessels approx. 57°34'N. Lat. 158°15'W Long. | 56 | | " " | |
| | | | | Copy 601, confiden- tial, June 13, 1936 Patrol boat Cyane | Crew 29 men, 23 cadets or students of the Tyko Fishing Institute 16 officers and pro- fessors. 1 room for every 4 students. Lab. for marine life, com- bined study hall and mess hall. |

AREAS WHERE KING CRABS HAVE BEEN TAKEN IN ALASKA
AS REPORTED BY MR. NELSON OF SEATTLE

The numbers correspond to the numbered localities on the charts.

Bering Sea Chart:

1. Mr. Nelson picked up a Japanese net here; it contained about 80 crabs.
2. This was the principal area worked by Mr. Nelson in the Bering Sea.
3. The Japanese have been fishing on Davidson Bank. In the Pacific they have not extended their operations further east than this bank. On the eastern side of Sanak Island, many small crabs were taken. The Japanese did not enter this area because it was being fished by American halibut boats.
4. Mr. Nelson fished Pavlof Bay for crabs, he reports it as a good locality.
5. The Japanese fished this area for crabs. Mr. Nelson reports a great bank of razor clams along the shore.

Cape St. Elias - Shumagin Islands Chart.

1. Mr. Nelson reports that he found good crab fishing here in Alitak Bay. He suggests that the offshore bank should bring good results. He reports that two species of crab were obtained at Alitak; both species were sometimes obtained in the same haul.
- 2.
3. In halibut Cove, Cook Inlet, Mr. Nelson found crabs being obtained in pots. This operation was being carried on in September. The pots were round. Salmon and clams were used for bait. Mr. Nelson found that the ordinary square crab trap would not work for catching King Crabs.

4. In this area crabs have been taken by halibut boats.

General Comments:

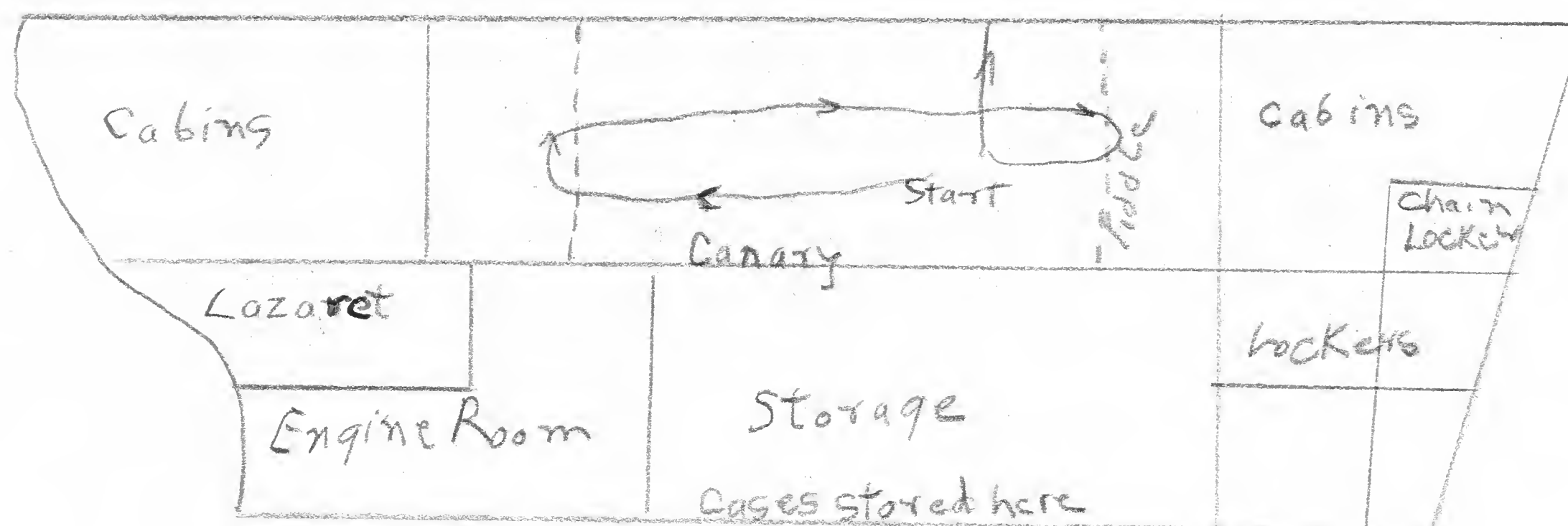
Mr. Nelson believes that the tides in Cook Inlet are too strong for operating gill nets. He believes trawls might work.

Mr. Nelson generally fished for King Crabs in about 35 fathoms, although he has taken them in as shallow water as 8 fathoms. The type of bottom from which crabs were taken was variable, extending from sand to mud. A Blue mud bottom perhaps yielded the best results. He found the best fishing in the bays, although the Japanese net which he pulled in the Bering Sea at locality one, seemed to indicate that open sea fishing was also profitable.

W. Williams
July 3, 1940.

Largest haul made was at Alitak 340 crabs, in one haul.
75 fms net.
Suggests best area in vicinity of Davidson Bank.

PLAN OF THE CANNING SHIP TONDELEYO



Formerly carried a crew of ^{35?}
 Mr. Nelson recommends
 a crew of 25.